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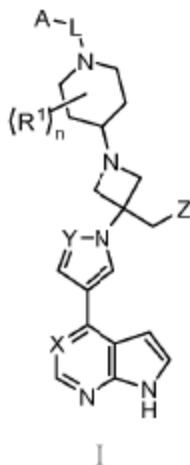
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(54) Title **PIPERIDIN-4-YL AZETIDINE DERIVATIVES AS JAK1 INHIBITORS**

Enclosed is a translation of the patent claims in Norwegian. Please note that as per the Norwegian Patents Acts, section 66i the patent will receive protection in Norway only as far as there is agreement between the translation and the language of the application/patent granted at the EPO. In matters concerning the validity of the patent, language of the application/patent granted at the EPO will be used as the basis for the decision. The patent documents published by the EPO are available through Espacenet (<http://worldwide.espacenet.com>) or via the search engine on our website here: <https://search.patentstyret.no/>

Patentkrav

1. Forbindelse med formel (1):



eller et farmasøytisk akseptabelt salt derav, hvor:

5 X er N eller CR²;

Y er N eller CR³;

Z er H, cyano, halogen, C₁₋₃-alkyl eller C₁₋₃-halogenalkyl;

L er C(R⁴)₂, C(=O), C(=O)N(R^{4a}), C(=O)C(R^{4b})₂, S(=O)₂, C(=O)O, C(=O)OC(R^{4b})₂ eller C(=O)N(R^{4a})C(R^{4b})₂;

10 A er C₁₋₆-alkyl, C₃₋₁₄-cykloalkyl, C₂₋₁₃-heterocykloalkyl, C₆₋₁₄-aryl eller C₁₋₁₄-heteroaryl; hvor nevnte C₁₋₆-alkyl, C₃₋₁₄-cykloalkyl, C₂₋₁₃-heterocykloalkyl, C₆₋₁₄-aryl og C₁₋₁₄-heteroaryl hver valgfritt kan være substituert med 1, 2, 3, 4, 5 eller 6 uavhengig valgte R⁵-grupper;

15 hver R¹ er uavhengig C₁₋₄-alkyl, hydroksyl, C₁₋₄-alkoksy, fluor, hydroksyl-C₁₋₄-alkyl eller C₁₋₄-alkoksy-C₁₋₄-alkyl; eller

to R¹-grupper danner sammen en 2- eller 3-karboners bro eller en bro med formel -CH₂-O-CH₂-;

R² er H, halogen, hydroksyl, cyano, C₁₋₄-alkyl, C₁₋₄-halogenalkyl eller C₁₋₄-alkoksy;

R^3 er H, cyano, nitro, halogen, hydroksyl, C_{1-6} -alkyl, C_{2-6} -alkenyl, C_{2-6} -alkynyl, C_{3-7} -cykloalkyl, C_{1-6} -halogenalkyl, C_{1-6} -alkoksy, C_{1-6} -halogenalkoksy, amino, C_{1-6} -alkylamino, di- C_{1-6} -alkylamino, C_{1-6} -alkylsulfonyl, karbamyl, C_{1-6} -alkylkarbamyl, di- C_{1-6} -alkylkarbamyl, karboksy, C_{1-6} -alkylkarbonyl eller C_{1-6} -alkoksykarbonyl;

5 hver R^4 er uavhengig H eller C_{1-4} -alkyl; eller

to R^4 -grupper, sammen med karbonatomet som de er bundet til, danner en 3-, 4-, 5- eller 6-leddet cykloalkylring;

R^{4a} er H eller C_{1-4} -alkyl;

hver R^{4b} er uavhengig H eller C_{1-4} -alkyl; eller

10 to R^{4b} -grupper, sammen med karbonatomet som de er bundet til, danner en 3-, 4-, 5- eller 6-leddet cykloalkylring;

hver R^5 er uavhengig halogen, cyano, nitro, C_{1-6} -alkyl, C_{2-6} -alkenyl, C_{2-6} -alkynyl, C_{1-6} -halogenalkyl, halogensulfanyl, C_{3-10} -cykloalkyl, C_{3-10} -cykloalkyl- C_{1-3} -alkyl, C_{2-10} -heterocykloalkyl, C_{2-10} -heterocykloalkyl- C_{1-3} -alkyl, C_{6-10} -aryl, C_{6-10} -aryl- C_{1-3} -alkyl, 15 C_{1-10} -heteroaryl, C_{1-10} -heteroaryl- C_{1-3} -alkyl, OR^a , SR^a , $C(O)R^b$, $C(O)NR^cR^d$, $C(O)OR^a$, $OC(O)R^b$, $OC(O)NR^cR^d$, NR^cR^d , $NR^cC(O)R^b$, $NR^cC(O)OR^a$, $NR^cC(O)NR^cR^d$, $C(=NR^e)R^b$, $C(=NR^c)NR^cR^d$, $NR^eC(=NR^c)NR^cR^d$, $NR^cS(O)R^b$, $NR^cS(O)_2R^b$, $NR^cS(O)_2NR^cR^d$, $S(O)R^b$, $S(O)NR^cR^d$, $S(O)_2R^b$ eller $S(O)_2NR^cR^d$; hvor nevnte C_{1-6} -alkyl, C_{2-6} -alkenyl, C_{2-6} -alkynyl, C_{1-6} -halogenalkyl, C_{3-10} -cykloalkyl, C_{3-10} -cykloalkyl- C_{1-3} -alkyl, C_{2-10} -heterocykloalkyl, C_{2-10} -heterocykloalkyl- C_{1-3} -alkyl, C_{6-10} -aryl, C_{6-10} -aryl- C_{1-3} -alkyl, 20 C_{1-10} -heteroaryl og C_{1-10} -heteroaryl- C_{1-3} -alkyl hver valgfritt kan være substituert med 1, 2, 3, 4 eller 5 uavhengig valgte R^6 -grupper;

hver R^6 er uavhengig halogen, cyano, nitro, C_{1-6} -alkyl, C_{2-6} -alkenyl, C_{2-6} -alkynyl, C_{1-6} -halogenalkyl, halogensulfanyl, C_{3-10} -cykloalkyl, C_{3-10} -cykloalkyl- C_{1-3} -alkyl, C_{2-10} -heterocykloalkyl, C_{2-10} -heterocykloalkyl- C_{1-3} -alkyl, C_{6-10} -aryl, C_{6-10} -aryl- C_{1-3} -alkyl, 25 C_{1-10} -heteroaryl, C_{1-10} -heteroaryl- C_{1-3} -alkyl, OR^{a1} , SR^{a1} , $C(O)R^{b1}$, $C(O)NR^{c1}R^{d1}$, $C(O)OR^{a1}$, $OC(O)R^{b1}$, $OC(O)NR^{c1}R^{d1}$, $C(=NR^{e1})NR^{c1}R^{d1}$, $NR^{c1}C(=NR^{e1})NR^{c1}R^{d1}$, $NR^{c1}R^{d1}$, $NR^{c1}C(O)R^{b1}$, $NR^{c1}C(O)OR^{a1}$, $NR^{c1}C(O)NR^{c1}R^{d1}$, $NR^{c1}S(O)R^{b1}$, $NR^{c1}S(O)_2R^{b1}$, $NR^{c1}S(O)_2NR^{c1}R^{d1}$, $S(O)R^{b1}$, $S(O)NR^{c1}R^{d1}$, $S(O)_2R^{b1}$ eller $S(O)_2NR^{c1}R^{d1}$; hvor nevnte 30 C_{1-6} -alkyl, C_{2-6} -alkenyl, C_{2-6} -alkynyl, C_{1-6} -halogenalkyl, C_{3-10} -cykloalkyl, C_{3-10} -cykloalkyl- C_{1-3} -alkyl, C_{2-10} -heterocykloalkyl, C_{2-10} -heterocykloalkyl- C_{1-3} -alkyl, C_{6-10} -

aryl, C₆₋₁₀-aryl-C₁₋₃-alkyl, C₁₋₁₀-heteroaryl og C₁₋₁₀-heteroaryl-C₁₋₃-alkyl hver valgfritt kan være substituert med 1, 2, 3, 4 eller 5 uavhengig valgte R^h-grupper;

hver R^a, R^b, R^c og R^d er uavhengig H, C₁₋₆-alkyl, C₂₋₆-alkenyl, C₂₋₆-alkynyl, C₁₋₆-halogenalkyl, C₃₋₁₀-cykloalkyl, C₃₋₁₀-cykloalkyl-C₁₋₃-alkyl, C₂₋₁₀-heterocykloalkyl, C₂₋₁₀-heterocykloalkyl-C₁₋₃-alkyl, C₆₋₁₀-aryl, C₆₋₁₀-aryl-C₁₋₃-alkyl, C₁₋₁₀-heteroaryl eller C₁₋₁₀-heteroaryl-C₁₋₃-alkyl; hvor nevnte C₁₋₆-alkyl, C₂₋₆-alkenyl, C₂₋₆-alkynyl, C₁₋₆-halogenalkyl, C₃₋₁₀-cykloalkyl, C₃₋₁₀-cykloalkyl-C₁₋₃-alkyl, C₂₋₁₀-heterocykloalkyl, C₂₋₁₀-heterocykloalkyl-C₁₋₃-alkyl, C₆₋₁₀-aryl, C₆₋₁₀-aryl-C₁₋₃-alkyl, C₁₋₁₀-heteroaryl og C₁₋₁₀-heteroaryl-C₁₋₃-alkyl valgfritt kan være substituert med 1, 2, 3, 4 eller 5 uavhengig valgte R^g-grupper;

eller hvilket som helst R^c og R^d sammen med N-atomet som de er bundet til, danner en 3-, 4-, 5-, 6- eller 7-leddet heterocykloalkylgruppe eller en heteroarylgruppe, som hver valgfritt kan være substituert med 1, 2, 3 eller 4 substituenten uavhengig valgt fra halogen, cyano, nitro, hydroksyl, C₁₋₆-alkyl, C₂₋₆-alkenyl, C₂₋₆-alkynyl, C₃₋₇-cykloalkyl, C₁₋₆-halogenalkyl, C₁₋₆-alkoksy, C₁₋₆-halogenalkoksy, amino, C₁₋₆-alkylamino, di-C₁₋₆-alkylamino, tio, C₁₋₆-alkyltio, C₁₋₆-alkylsulfinyl, C₁₋₆-alkylsulfonyl, karbamyl, C₁₋₆-alkylkarbamyl, di-C₁₋₆-alkylkarbamyl, karboksy, C₁₋₆-alkylkarbonyl og C₁₋₆-alkoksykarbonyl;

hver R^e er uavhengig H, C₁₋₆-alkyl, CN, hydroksyl, C₁₋₆-alkoksy, C₁₋₆-alkylsulfonyl, karboksy, C₁₋₆-alkylkarbonyl, aminosulfonyl, C₁₋₆-alkylaminosulfonyl, di-C₁₋₆-alkylaminosulfonyl, karbamyl, C₁₋₆-alkylkarbamyl eller di-C₁₋₆-alkylkarbamyl;

hver R^{a1}, R^{b1}, R^{c1} og R^{d1} er uavhengig H, C₁₋₆-alkyl, C₂₋₆-alkenyl, C₂₋₆-alkynyl, C₁₋₆-halogenalkyl, C₃₋₁₀-cykloalkyl, C₃₋₁₀-cykloalkyl-C₁₋₃-alkyl, C₂₋₁₀-heterocykloalkyl, C₂₋₁₀-heterocykloalkyl-C₁₋₃-alkyl, C₆₋₁₀-aryl, C₆₋₁₀-aryl-C₁₋₃-alkyl, C₁₋₁₀-heteroaryl eller C₁₋₁₀-heteroaryl-C₁₋₃-alkyl; hvor nevnte C₁₋₆-alkyl, C₂₋₆-alkenyl, C₂₋₆-alkynyl, C₁₋₆-halogenalkyl, C₃₋₁₀-cykloalkyl, C₃₋₁₀-cykloalkyl-C₁₋₃-alkyl, C₂₋₁₀-heterocykloalkyl, C₂₋₁₀-heterocykloalkyl-C₁₋₃-alkyl, C₆₋₁₀-aryl, C₆₋₁₀-aryl-C₁₋₃-alkyl, C₁₋₁₀-heteroaryl og C₁₋₁₀-heteroaryl-C₁₋₃-alkyl valgfritt kan være substituert med 1, 2, 3, 4 eller 5 uavhengig valgte R^{g1}-grupper;

eller hvilket som helst R^{c1} og R^{d1} danner sammen med N-atomet som de er bundet til, en 3-, 4-, 5-, 6- eller 7-leddet heterocykloalkylgruppe eller en heteroarylgruppe, som hver valgfritt kan være substituert med 1, 2, 3 eller 4 substituenten uavhengig valgt fra halogen, cyano, nitro, hydroksyl, C₁₋₆-alkyl, C₂₋₆-alkenyl, C₂₋₆-alkynyl, C₃₋₇-

cykloalkyl, C₁₋₆-halogenalkyl, C₁₋₆-alkoksy, C₁₋₆-halogenalkoksy, amino, C₁₋₆-alkylamino, di-C₁₋₆-alkylamino, tio, C₁₋₆-alkyltio, C₁₋₆-alkylsulfinyl, C₁₋₆-alkylsulfonyl, karbamyl, C₁₋₆-alkylkarbamyl, di-C₁₋₆-alkylkarbamyl, karboksy, C₁₋₆-alkylkarbonyl, C₁₋₆-alkoksykarbonyl og C₁₋₆-alkylkarbonylamino;

- 5 hver R^{e1} er uavhengig H, C₁₋₆-alkyl, CN, hydroksyl, C₁₋₆-alkoksy, C₁₋₆-alkylsulfonyl, karboksy, C₁₋₆-alkylkarbonyl, aminosulfonyl, C₁₋₆-alkylaminosulfonyl, di-C₁₋₆-alkylaminosulfonyl, karbamyl, C₁₋₆-alkylkarbamyl eller di-C₁₋₆-alkylkarbamyl;

- hver R^g, R^{g'} og R^h er uavhengig halogen, cyano, nitro, hydroksyl, C₁₋₆-alkyl, C₂₋₆-alkenyl, C₂₋₆-alkynyl, C₃₋₇-cykloalkyl, C₁₋₆-halogenalkyl, C₁₋₆-alkoksy, C₁₋₆-halogenalkoksy, amino, C₁₋₆-alkylamino, di-C₁₋₆-alkylamino, tio, C₁₋₆-alkyltio, C₁₋₆-alkylsulfinyl, C₁₋₆-alkylsulfonyl, karbamyl, C₁₋₆-alkylkarbamyl, di-C₁₋₆-alkylkarbamyl, karboksy, C₁₋₆-alkylkarbonyl, C₁₋₆-alkoksykarbonyl eller C₁₋₆-alkylkarbonylamino; og
- 10

n er 0, 1, 2, 3 eller 4.

2. Forbindelse ifølge krav 1 eller et farmasøytisk akseptabelt salt derav, hvor:

- 15 X er N eller CR²;

Y er N eller CR³;

Z er H, cyano, halogen, C₁₋₃-alkyl eller C₁₋₃-halogenalkyl;

L er C(R⁴)₂, C(=O), C(=O)N(R^{4a}), C(=O)C(R^{4b})₂ eller S(=O)₂;

- A er C₁₋₆-alkyl, C₃₋₁₄-cykloalkyl, C₂₋₁₃-heterocykloalkyl, C₆₋₁₄-aryl eller C₁₋₁₄-heteroaryl; hvor nevnte C₁₋₆-alkyl, C₃₋₁₄-cykloalkyl, C₂₋₁₃-heterocykloalkyl, C₆₋₁₄-aryl og C₁₋₁₄-heteroaryl hver valgfritt kan være substituert med 1, 2, 3, 4, 5 eller 6 uavhengig valgte R⁵-grupper;
- 20

hver R¹ er uavhengig C₁₋₄-alkyl; eller

to R¹-grupper danner sammen en 2- eller 3-karboners bro;

- 25 R² er H, halogen, hydroksyl, cyano, C₁₋₄-alkyl, C₁₋₄-halogenalkyl eller C₁₋₄-alkoksy;

R^3 er H, cyano, nitro, halogen, hydroksyl, C_{1-6} -alkyl, C_{2-6} -alkenyl, C_{2-6} -alkynyl, C_{3-7} -cykloalkyl, C_{1-6} -halogenalkyl, C_{1-6} -alkoksy, C_{1-6} -halogenalkoksy, amino, C_{1-6} -alkylamino, di- C_{1-6} -alkylamino, C_{1-6} -alkylsulfonyl, karbamyl, C_{1-6} -alkylkarbamyl, di- C_{1-6} -alkylkarbamyl, karboksy, C_{1-6} -alkylkarbonyl eller C_{1-6} -alkoksykarbonyl;

5 hver R^4 er uavhengig H eller C_{1-4} -alkyl; eller

to R^4 -grupper, sammen med karbonatomet som de er bundet til, danner en 3-, 4-, 5- eller 6-leddet cykloalkylring;

R^{4a} er H eller C_{1-4} -alkyl;

hver R^{4b} er uavhengig H eller C_{1-4} -alkyl; eller

10 to R^{4b} -grupper, sammen med karbonatomet som de er bundet til, danner en 3-, 4-, 5- eller 6-leddet cykloalkylring;

hver R^5 er uavhengig halogen, cyano, nitro, C_{1-6} -alkyl, C_{2-6} -alkenyl, C_{2-6} -alkynyl, C_{1-6} -halogenalkyl, halogensulfanyl, C_{3-10} -cykloalkyl, C_{3-10} -cykloalkyl- C_{1-3} -alkyl, C_{2-10} -heterocykloalkyl, C_{2-10} -heterocykloalkyl- C_{1-3} -alkyl, C_{6-10} -aryl, C_{6-10} -aryl- C_{1-3} -alkyl, 15 C_{1-10} -heteroaryl, C_{1-10} -heteroaryl- C_{1-3} -alkyl, OR^a , SR^a , $C(O)R^b$, $C(O)NR^cR^d$, $C(O)OR^a$, $OC(O)R^b$, $OC(O)NR^cR^d$, NR^cR^d , $NR^cC(O)R^b$, $NR^cC(O)OR^a$, $NR^cC(O)NR^cR^d$, $C(=NR^e)R^b$, $C(=NR^e)NR^cR^d$, $NR^cC(=NR^e)NR^cR^d$, $NR^cS(O)R^b$, $NR^cS(O)_2R^b$, $NR^cS(O)_2NR^cR^d$, $S(O)R^b$, $S(O)NR^cR^d$, $S(O)_2R^b$ eller $S(O)_2NR^cR^d$; hvor nevnte C_{1-6} -alkyl, C_{2-6} -alkenyl, C_{2-6} -alkynyl, C_{1-6} -halogenalkyl, C_{3-10} -cykloalkyl, C_{3-10} -cykloalkyl- C_{1-3} -alkyl, C_{2-10} -heterocykloalkyl, C_{2-10} -heterocykloalkyl- C_{1-3} -alkyl, C_{6-10} -aryl, C_{6-10} -aryl- C_{1-3} -alkyl, 20 C_{1-10} -heteroaryl og C_{1-10} -heteroaryl- C_{1-3} -alkyl hver valgfritt kan være substituert med 1, 2, 3, 4 eller 5 uavhengig valgte R^6 -grupper;

hver R^6 er uavhengig halogen, cyano, nitro, C_{1-6} -alkyl, C_{2-6} -alkenyl, C_{2-6} -alkynyl, C_{1-6} -halogenalkyl, halogensulfanyl, C_{3-10} -cykloalkyl, C_{3-10} -cykloalkyl- C_{1-3} -alkyl, C_{2-10} -heterocykloalkyl, C_{2-10} -heterocykloalkyl- C_{1-3} -alkyl, C_{6-10} -aryl, C_{6-10} -aryl- C_{1-3} -alkyl, 25 C_{1-10} -heteroaryl, C_{1-10} -heteroaryl- C_{1-3} -alkyl, OR^{a1} , SR^{a1} , $C(O)R^{b1}$, $C(O)NR^{c1}R^{d1}$, $C(O)OR^{a1}$, $OC(O)R^{b1}$, $OC(O)NR^{c1}R^{d1}$, $C(=NR^{e1})NR^{c1}R^{d1}$, $NR^{e1}C(=NR^{c1})NR^{c1}R^{d1}$, $NR^{c1}R^{d1}$, $NR^{c1}C(O)R^{b1}$, $NR^{c1}C(O)OR^{a1}$, $NR^{c1}C(O)NR^{c1}R^{d1}$, $NR^{c1}S(O)R^{b1}$, $NR^{c1}S(O)_2R^{b1}$, $NR^{c1}S(O)_2NR^{c1}R^{d1}$, $S(O)R^{b1}$, $S(O)NR^{c1}R^{d1}$, $S(O)_2R^{b1}$ eller $S(O)_2NR^{c1}R^{d1}$; hvor nevnte C_{1-6} -alkyl, C_{2-6} -alkenyl, C_{2-6} -alkynyl, C_{1-6} -halogenalkyl, C_{3-10} -cykloalkyl, C_{3-10} -cykloalkyl- C_{1-3} -alkyl, C_{2-10} -heterocykloalkyl, C_{2-10} -heterocykloalkyl- C_{1-3} -alkyl, C_{6-10} -aryl, C_{6-10} -aryl- C_{1-3} -alkyl, C_{1-10} -heteroaryl og C_{1-10} -heteroaryl- C_{1-3} -alkyl hver valgfritt kan være substituert med 1, 2, 3, 4 eller 5 uavhengig valgte R^6 -grupper; 30

aryl, C₆₋₁₀-aryl-C₁₋₃-alkyl, C₁₋₁₀-heteroaryl og C₁₋₁₀-heteroaryl-C₁₋₃-alkyl hver valgfritt kan være substituert med 1, 2, 3, 4 eller 5 uavhengig valgte R^h-grupper;

hver R^a, R^b, R^c og R^d er uavhengig H, C₁₋₆-alkyl, C₂₋₆-alkenyl, C₂₋₆-alkynyl, C₁₋₆-halogenalkyl, C₃₋₁₀-cykloalkyl, C₃₋₁₀-cykloalkyl-C₁₋₃-alkyl, C₂₋₁₀-heterocykloalkyl, C₂₋₁₀-heterocykloalkyl-C₁₋₃-alkyl, C₆₋₁₀-aryl, C₆₋₁₀-aryl-C₁₋₃-alkyl, C₁₋₁₀-heteroaryl eller C₁₋₁₀-heteroaryl-C₁₋₃-alkyl; hvor nevnte C₁₋₆-alkyl, C₂₋₆-alkenyl, C₂₋₆-alkynyl, C₁₋₆-halogenalkyl, C₃₋₁₀-cykloalkyl, C₃₋₁₀-cykloalkyl-C₁₋₃-alkyl, C₂₋₁₀-heterocykloalkyl, C₂₋₁₀-heterocykloalkyl-C₁₋₃-alkyl, C₆₋₁₀-aryl, C₆₋₁₀-aryl-C₁₋₃-alkyl, C₁₋₁₀-heteroaryl og C₁₋₁₀-heteroaryl-C₁₋₃-alkyl valgfritt kan være substituert med 1, 2, 3, 4 eller 5 uavhengig valgte R^g-grupper;

eller hvilket som helst R^c og R^d sammen med N-atomet som de er bundet til, danner en 3-, 4-, 5-, 6- eller 7-leddet heterocykloalkylgruppe eller en heteroarylgruppe, som hver valgfritt kan være substituert med 1, 2, 3 eller 4 substituenten som er uavhengig valgt fra halogen, cyano, nitro, hydroksyl, C₁₋₆-alkyl, C₂₋₆-alkenyl, C₂₋₆-alkynyl, C₃₋₇-cykloalkyl, C₁₋₆-halogenalkyl, C₁₋₆-alkoksy, C₁₋₆-halogenalkoksy, amino, C₁₋₆-alkylamino, di-C₁₋₆-alkylamino, tio, C₁₋₆-alkyltio, C₁₋₆-alkylsulfinyl, C₁₋₆-alkylsulfonyl, karbamyl, C₁₋₆-alkylkarbamyl, di-C₁₋₆-alkylkarbamyl, karboksy, C₁₋₆-alkylkarbonyl og C₁₋₆-alkoksykarbonyl;

hver R^e er uavhengig H, C₁₋₆-alkyl, CN, hydroksyl, C₁₋₆-alkoksy, C₁₋₆-alkylsulfonyl, karboksy, C₁₋₆-alkylkarbonyl, aminosulfonyl, C₁₋₆-alkylaminosulfonyl, di-C₁₋₆-alkylaminosulfonyl, karbamyl, C₁₋₆-alkylkarbamyl eller di-C₁₋₆-alkylkarbamyl;

hver R^{a1}, R^{b1}, R^{c1} og R^{d1} er uavhengig H, C₁₋₆-alkyl, C₂₋₆-alkenyl, C₂₋₆-alkynyl, C₁₋₆-halogenalkyl, C₃₋₁₀-cykloalkyl, C₃₋₁₀-cykloalkyl-C₁₋₃-alkyl, C₂₋₁₀-heterocykloalkyl, C₂₋₁₀-heterocykloalkyl-C₁₋₃-alkyl, C₆₋₁₀-aryl, C₆₋₁₀-aryl-C₁₋₃-alkyl, C₁₋₁₀-heteroaryl eller C₁₋₁₀-heteroaryl-C₁₋₃-alkyl; hvor nevnte C₁₋₆-alkyl, C₂₋₆-alkenyl, C₂₋₆-alkynyl, C₁₋₆-halogenalkyl, C₃₋₁₀-cykloalkyl, C₃₋₁₀-cykloalkyl-C₁₋₃-alkyl, C₂₋₁₀-heterocykloalkyl, C₂₋₁₀-heterocykloalkyl-C₁₋₃-alkyl, C₆₋₁₀-aryl, C₆₋₁₀-aryl-C₁₋₃-alkyl, C₁₋₁₀-heteroaryl og C₁₋₁₀-heteroaryl-C₁₋₃-alkyl valgfritt kan være substituert med 1, 2, 3, 4 eller 5 uavhengig valgte R^{g1}-grupper;

eller hvilket som helst R^{c1} og R^{d1} sammen med N-atomet som de er bundet til, danner en 3-, 4-, 5-, 6- eller 7-leddet heterocykloalkylgruppe eller en heteroarylgruppe, som hver valgfritt kan være substituert med 1, 2, 3 eller 4 substituenten som er uavhengig valgt fra halogen, cyano, nitro, hydroksyl, C₁₋₆-

alkyl, C₂₋₆-alkenyl, C₂₋₆-alkynyl, C₃₋₇-cykloalkyl, C₁₋₆-halogenalkyl, C₁₋₆-alkoksy, C₁₋₆-halogenalkoksy, amino, C₁₋₆-alkylamino, di-C₁₋₆-alkylamino, tio, C₁₋₆-alkyltio, C₁₋₆-alkylsulfinyl, C₁₋₆-alkylsulfonyl, karbamyl, C₁₋₆-alkylkarbamyl, di-C₁₋₆-alkylkarbamyl, karboksy, C₁₋₆-alkylkarbonyl, C₁₋₆-alkoksykarbonyl og C₁₋₆-alkylkarbonylamino;

- 5 hver R^{e1} er uafhængig H, C₁₋₆-alkyl, CN, hydroksyl, C₁₋₆-alkoksy, C₁₋₆-alkylsulfonyl, karboksy, C₁₋₆-alkylkarbonyl, aminosulfonyl, C₁₋₆-alkylaminosulfonyl, di-C₁₋₆-alkylaminosulfonyl, karbamyl, C₁₋₆-alkylkarbamyl eller di-C₁₋₆-alkylkarbamyl;

- 10 hver R^g, R^{g'} og R^h er uafhængig halogen, cyano, nitro, hydroksyl, C₁₋₆-alkyl, C₂₋₆-alkenyl, C₂₋₆-alkynyl, C₃₋₇-cykloalkyl, C₁₋₆-halogenalkyl, C₁₋₆-alkoksy, C₁₋₆-halogenalkoksy, amino, C₁₋₆-alkylamino, di-C₁₋₆-alkylamino, tio, C₁₋₆-alkyltio, C₁₋₆-alkylsulfinyl, C₁₋₆-alkylsulfonyl, karbamyl, C₁₋₆-alkylkarbamyl, di-C₁₋₆-alkylkarbamyl, karboksy, C₁₋₆-alkylkarbonyl, C₁₋₆-alkoksykarbonyl eller C₁₋₆-alkylkarbonylamino; og

n er 0, 1, 2, 3 eller 4.

- 15 3. Forbindelse ifølge krav 1 eller 2 eller et farmasøytisk akseptabelt salt derav, hvor

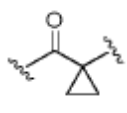
- a) X er N; eller
- b) X er CR²; eller
- c) X er C(H), C(F) eller C(CN); eller
- d) X er CH.

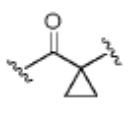
- 20 4. Forbindelse ifølge et hvilket som helst av kravene 1 til 3 eller et farmasøytisk akseptabelt salt derav, hvor

- a) Y er N; eller
- b) Y er CR³; eller
- c) Y er CH.

5. Forbindelse ifølge et hvilket som helst av kravene 1 til 4 eller et farmasøytisk akseptabelt salt derav, hvor Z er cyano.

6. Forbindelse ifølge et hvilket som helst av kravene 1 til 5 eller et farmasøytisk akseptabelt salt derav, hvor

5 a) L er $C(=O)NH$, $C(=O)$, $S(=O)_2$, CH_2 , $C(=O)CH_2$ eller  ; eller

b) L er $C(=O)NH$, $C(=O)$, $S(=O)_2$, CH_2 , $C(=O)CH_2$,  eller $C(=O)O$.

7. Forbindelse ifølge et hvilket som helst av kravene 1 til 6 eller et farmasøytisk akseptabelt salt derav, hvor

a) n er 0, 1 eller 2; eller

10 b) n er 0.

8. Forbindelse ifølge et hvilket som helst av kravene 1 til 7 eller et farmasøytisk akseptabelt salt derav, hvor

a) R^1 er C_{1-4} -alkyl; eller

b) R^1 er metyl; eller

15 c) to R^1 -grupper danner en 2-karboners bro.

9. Forbindelse ifølge et hvilket som helst av kravene 1 til 8 eller et farmasøytisk akseptabelt salt derav, hvor

a) A er C_{6-14} -aryl, som valgfritt kan være substituert med 1, 2, 3, 4, 5 eller 6 uavhengig valgte R^5 -grupper; eller

20 b) A er fenyl, som valgfritt kan være substituert med 1, 2, 3, 4 eller 5 uavhengig valgte R^5 -grupper; eller

- c) A er monocyklisk C₃₋₉-cykloalkyl eller bicyklisk C₃₋₉-cykloalkyl, som hver valgfritt kan være substituert med 1, 2, 3, 4, 5 eller 6 uavhengig valgte R⁵-grupper; eller
- 5 d) A er monocyklisk C₂₋₁₀-heterocykloalkyl eller bicyklisk C₂₋₁₀-heterocykloalkyl, som hver valgfritt kan være substituert med 1, 2, 3, 4, 5 eller 6 uavhengig valgte R⁵-grupper; eller
- e) A er monocyklisk C₁₋₁₀-heteroaryl eller bicyklisk C₁₋₁₀-heteroaryl, som hver valgfritt kan være substituert med 1, 2, 3, 4, 5 eller 6 uavhengig valgte R⁵-grupper; eller
- 10 f) A er C₁₋₆-alkyl; eller
- g) A er C₁₋₆-alkyl, fenyl, en naftylring, monocyklisk eller bicyklisk C₃₋₁₀-cykloalkyl, monocyklisk eller bicyklisk C₂₋₁₀-heterocykloalkyl eller monocyklisk eller bicyklisk C₁₋₁₀-heteroaryl; som hver valgfritt kan være substituert med 1, 2, 3, 4 eller 5 uavhengig valgte R⁵-grupper; eller
- 15 h) A er fenyl, en naftylring, monocyklisk C₃₋₁₀-cykloalkyl, bicyklisk C₃₋₁₀-cykloalkyl, monocyklisk C₂₋₁₀-heterocykloalkyl, bicyklisk C₂₋₁₀-heterocykloalkyl, monocyklisk C₁₋₁₀-heteroaryl eller bicyklisk C₁₋₁₀-heteroaryl; som hver valgfritt kan være substituert med 1, 2, 3, 4 eller 5 uavhengig valgte R⁵-grupper; eller
- 20 i) A er metyl, etyl, isopropyl, fenyl, en naftalenring, en pyridinring, en pyrimidinring, en tiofenring, en pyrazinring, en oksazolring, en isoksazolring, en imidazolring, en tiazolring, en furanring, en pyrazolring, en kinolinring, en benzotiofenring, en benzotiazolring, en benzoimidazolring, en benzofuranring, cyklopropyl, cyklopentyl, cykloheksyl, cykloheptyl, en
- 25 indenring, en tetrahydronaftalenring, dihydro-1,4-benzodioksosinring eller en piperidinring; som hver valgfritt kan være substituert med 1, 2, 3, 4 eller 5 uavhengig valgte R⁵-grupper, alt ettersom hva valensen tillater; eller
- j) A er fenyl eller en pyridinring; som hver valgfritt kan være substituert med 1, 2, 3 eller 4 uavhengig valgte R⁵-grupper; eller

- k) A er pyridin-4-yl; som valgfritt kan være substituert med 1, 2, 3 eller 4 uavhengig valgte R^5 -grupper.

10. Forbindelse ifølge et hvilket som helst av kravene 1 til 9 eller et farmasøytisk akseptabelt salt derav, hvor

- 5 a) hver R^5 er uavhengig halogen, cyano, C_{1-6} -alkyl, C_{1-6} -halogenalkyl, C_{6-10} -aryl, C_{1-10} -heteroaryl, OR^a , SR^a , $C(O)OR^a$, NR^cR^d , $NR^cC(O)R^b$; hvor nevnte C_{1-6} -alkyl, C_{1-6} -halogenalkyl, C_{6-10} -aryl og C_{1-10} -heteroaryl hver valgfritt kan være substituert med 1, 2, 3, 4 eller 5 uavhengig valgte R^6 -grupper; eller
- 10 b) hver R^5 er uavhengig klor, fluor, brom, cyano, metyl, etyl, trifluormetyl, hydroksyl, metoksy, trifluormetoksy, difluormetoksy, fenoksy, dimetylamino, t-butylkarbonylamino, metoksykarbonyl, metyltio, fenyl, en pyridinring, en tiazolring, en kinolinring, en isokinolinring, en imidazo[1,2-a]pyrimidinring, en benzoksazolring eller en oksadiazolring; hvor nevnte fenyl, pyridinring, tiazolring, kinolinring, isokinolinring, imidazo[1,2-a]pyrimidinring,
- 15 benzoksazolring og oksadiazolring hver valgfritt kan være substituert med 1, 2, 3, 4 eller 5 uavhengig valgte R^6 -grupper; eller
- c) hver R^5 er uavhengig halogen, cyano, C_{1-6} -alkyl, C_{1-6} -halogenalkyl, C_{6-10} -aryl, C_{1-10} -heteroaryl, OR^a , SR^a , $C(O)OR^a$, NR^cR^d eller $NR^cC(O)R^b$; hvor nevnte C_{1-6} -alkyl, C_{1-6} -halogenalkyl, C_{6-10} -aryl og C_{1-10} -heteroaryl hver valgfritt kan
- 20 være substituert med 1, 2, 3, 4 eller 5 uavhengig valgte R^6 -grupper;

hver R^a , R^b , R^c og R^d er uavhengig H, C_{1-6} -alkyl, C_{1-6} -halogenalkyl eller C_{6-10} -aryl; hvor nevnte C_{1-6} -alkyl og C_{6-10} -aryl valgfritt kan være substituert med 1, 2, 3, 4 eller 5 uavhengig valgte R^9 grupper;

- 25 hver R^6 er uavhengig halogen, cyano, C_{1-6} -alkyl, C_{1-6} -halogenalkyl, OR^{a1} , $NR^{c1}R^{d1}$ eller $OC(O)R^{b1}$; og

hver R^{a1} , R^{b1} , R^{c1} og R^{d1} er uavhengig H eller C_{1-6} -alkyl; hvor nevnte C_{1-6} -alkyl valgfritt kan være substituert med en substituent uavhengig valgt fra C_{1-4} -alkoksy og hydroksyl;

- 30 eller hvilket som helst R^{c1} og R^{d1} sammen med N-atomet som de er bundet til, danner en 4-, 5-, 6- eller 7-leddet heterocykloalkylgruppe, valgfritt

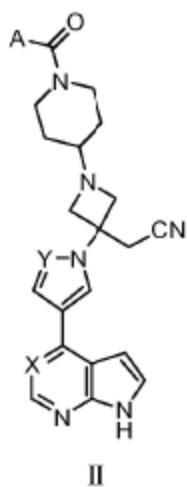
substituert med 1, 2, 3 eller 4 substituenten uafhængig valgt fra halogen;
eller

d) hver R^5 er uafhængig halogen eller C_{1-6} -halogenalkyl; eller

e) hver R^5 er uafhængig fluor eller trifluormetyl.

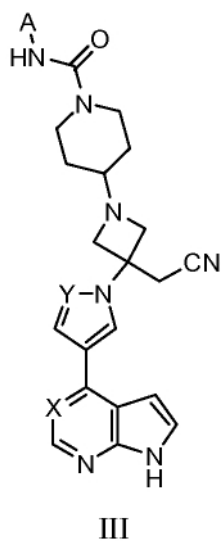
5 11. Forbindelse ifølge et hvilket som helst af kravene 1 til 4 og 9 til 10, som har

a) formel (II):



eller et farmasøytisk akseptabelt salt derav, eller

b) formel (III):



eller et farmasøytisk akseptabelt salt derav.

12. Forbindelse ifølge krav 1 eller 2 eller et farmasøytisk akseptabelt salt derav, hvor:

a) X er N eller CR²;

5 Y er N eller CR³;

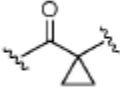
hver R¹ er uavhengig C₁₋₄-alkyl; eller

to R¹-grupper danner en 2-karboners bro;

R² er H, halogen eller cyano;

R³ er H;

10 Z er cyano;

L er C(=O)NH, C(=O), S(=O)₂, CH₂, C(=O)CH₂ eller  ;

15 A er C₁₋₆-alkyl, fenyl, en naftylring, monocyklisk C₃₋₁₀-cykloalkyl, bicyklisk C₃₋₁₀-cykloalkyl, monocyklisk C₂₋₁₀-heterocykloalkyl, bicyklisk C₂₋₁₀-heterocykloalkyl, monocyklisk C₁₋₁₀-heteroaryl eller bicyklisk C₁₋₁₀-heteroaryl; som hver valgfritt kan være substituert med 1, 2, 3, 4 eller 5 uavhengig valgte R⁵-grupper;

20 hver R⁵ er uavhengig halogen, cyano, C₁₋₆-alkyl, C₂₋₆-alkenyl, C₂₋₆-alkynyl, C₁₋₆-halogenalkyl, C₃₋₁₀-cykloalkyl, C₃₋₁₀-cykloalkyl-C₁₋₃-alkyl, C₂₋₁₀-heterocykloalkyl, C₂₋₁₀-heterocykloalkyl-C₁₋₃-alkyl, C₆₋₁₀-aryl, C₆₋₁₀-aryl-C₁₋₃-alkyl, C₁₋₁₀-heteroaryl, C₁₋₁₀-heteroaryl-C₁₋₃-alkyl, OR^a, SR^a, C(O)R^b, C(O)NR^cR^d, C(O)OR^a, OC(O)R^b, OC(O)NR^cR^d, NR^cR^d, NR^cC(O)R^b, NR^cC(O)OR^a, NR^cC(O)NR^cR^d, NR^cS(O)R^b, NR^cS(O)₂R^b, NR^cS(O)₂NR^cR^d, S(O)R^b, S(O)NR^cR^d, S(O)₂R^b eller S(O)₂NR^cR^d; hvor nevnte C₁₋₆-alkyl, C₂₋₆-alkenyl, C₂₋₆-alkynyl, C₁₋₆-halogenalkyl, C₃₋₁₀-cykloalkyl, C₃₋₁₀-cykloalkyl-C₁₋₃-alkyl, C₂₋₁₀-heterocykloalkyl, C₂₋₁₀-heterocykloalkyl-C₁₋₃-alkyl, C₆₋₁₀-aryl, C₆₋₁₀-aryl-C₁₋₃-

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alkyl, C₁₋₁₀-heteroaryl og C₁₋₁₀-heteroaryl-C₁₋₃-alkyl hver valgfritt kan være substituert med 1, 2, 3, 4 eller 5 uavhengig valgte R⁶-grupper; og

n er 0, 1 eller 2; eller

b) X er N eller CR²;

5 Y er N eller CR³;

hver R¹ er uavhengig C₁₋₄-alkyl; eller

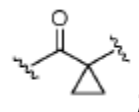
to R¹-grupper danner en 2-karboners bro;

R² er H, halogen eller cyano;

R³ er H;

10 Z er cyano;

L er C(=O)NH, C(=O), S(=O)₂, CH₂, C(=O)CH₂ eller



;

A er C₁₋₆-alkyl, fenyl, en naftylring, monocyklisk C₃₋₁₀-cykloalkyl, bicyklisk C₃₋₁₀-cykloalkyl, monocyklisk C₂₋₁₀-heterocykloalkyl, bicyklisk C₂₋₁₀-heterocykloalkyl, monocyklisk C₁₋₁₀-heteroaryl eller bicyklisk C₁₋₁₀-heteroaryl; som hver valgfritt kan være substituert med 1, 2, 3, 4 eller 5 uavhengig valgte R⁵-grupper;

hver R⁵ er uavhengig halogen, cyano, C₁₋₆-alkyl, C₁₋₆-halogenalkyl, C₃₋₁₀-cykloalkyl, C₂₋₁₀-heterocykloalkyl, C₆₋₁₀-aryl, C₆₋₁₀-aryl-C₁₋₃-alkyl, C₁₋₁₀-heteroaryl, OR^a, SR^a, C(O)R^b, C(O)NR^cR^d, C(O)OR^a, OC(O)R^b, OC(O)NR^cR^d, NR^cR^d, NR^cC(O)R^b, NR^cC(O)OR^a, NR^cC(O)NR^cR^d, NR^cS(O)₂R^b, NR^cS(O)₂NR^cR^d, S(O)₂R^b eller S(O)₂NR^cR^d; hvor nevnte C₁₋₆-alkyl, C₁₋₆-halogenalkyl, C₃₋₁₀-cykloalkyl, C₂₋₁₀-heterocykloalkyl, C₆₋₁₀-aryl, C₆₋₁₀-aryl-C₁₋₃-alkyl og C₁₋₁₀-heteroaryl hver valgfritt kan være substituert med 1, 2, 3, 4 eller 5 uavhengig valgte R⁶-grupper; og

25 n er 0, 1 eller 2; eller

c) X er N eller CR^2 ;

Y er N eller CR^3 ;

hver R^1 er uavhengig C_{1-4} -alkyl; eller

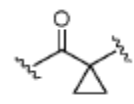
to R^1 -grupper danner en 2-karboners bro;

5 R^2 er H, halogen eller cyano;

R^3 er H;

Z er cyano;

L er $C(=O)NH$, $C(=O)$, $S(=O)_2$, CH_2 , $C(=O)CH_2$ eller



;

10 A er fenyl, en naftylring, monocyklisk C_{3-10} -cykloalkyl, bicyklisk C_{3-10} -cykloalkyl, monocyklisk C_{2-10} -heterocykloalkyl, bicyklisk C_{2-10} -heterocykloalkyl, monocyklisk C_{1-10} -heteroaryl eller bicyklisk C_{1-10} -heteroaryl; som hver valgfritt kan være substituert med 1, 2, 3, 4 eller 5 uavhengig valgte R^5 -grupper;

15 hver R^5 er uavhengig halogen, cyano, C_{1-6} -alkyl, C_{1-6} -halogenalkyl, C_{3-10} -cykloalkyl, C_{2-10} -heterocykloalkyl, C_{6-10} -aryl, C_{6-10} -aryl- C_{1-3} -alkyl, C_{1-10} -heteroaryl, OR^a , SR^a , $C(O)R^b$, $C(O)NR^cR^d$, $C(O)OR^a$, $OC(O)R^b$, $OC(O)NR^cR^d$, NR^cR^d , $NR^cC(O)R^b$, $NR^cC(O)OR^a$, $NR^cC(O)NR^cR^d$, $NR^cS(O)_2R^b$, $NR^cS(O)_2NR^cR^d$, $S(O)_2R^b$ eller $S(O)_2NR^cR^d$, hvor nevnte C_{1-6} -alkyl, C_{1-6} -halogenalkyl, C_{3-10} -cykloalkyl, C_{2-10} -heterocykloalkyl, C_{6-10} -aryl, C_{6-10} -aryl- C_{1-3} -alkyl og C_{1-10} -heteroaryl hver valgfritt kan være substituert med 1, 2, 3, 4 eller 5 uavhengig valgte R^6 -grupper; og

n er 0, 1 eller 2; eller

d) X er N eller CR^2 ;

Y er N eller CR^3 ;

hver R^1 er uavhengig C_{1-4} -alkyl; eller

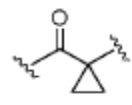
to R^1 -grupper danner en 2-karboners bro;

R^2 er H, halogen eller cyano;

R^3 er H;

5 Z er cyano;

L er $C(=O)NH$, $C(=O)$, $S(=O)_2$, CH_2 , $C(=O)CH_2$ eller



;

10 A er C_{1-6} -alkyl, fenyl, en naftylring, monocyklisk C_{3-10} -cykloalkyl, bicyklisk C_{3-10} -cykloalkyl, monocyklisk C_{2-10} -heterocykloalkyl, bicyklisk C_{2-10} -heterocykloalkyl, monocyklisk C_{1-10} -heteroaryl eller bicyklisk C_{1-10} -heteroaryl; som hver valgfritt kan være substituert med 1, 2, 3, 4 eller 5 uavhengig valgte R^5 -grupper;

15 hver R^5 er uavhengig halogen, cyano, C_{1-6} -alkyl, C_{1-6} -halogenalkyl, C_{6-10} -aryl, C_{1-10} -heteroaryl, OR^a , SR^a , $C(O)OR^a$, NR^cR^d , $NR^cC(O)R^b$; hvor nevnte C_{1-6} -alkyl, C_{1-6} -halogenalkyl, C_{6-10} -aryl og C_{1-10} -heteroaryl hver valgfritt kan være substituert med 1, 2, 3, 4 eller 5 uavhengig valgte R^6 -grupper;

og

n er 0, 1 eller 2; eller

e) X er N eller CR^2 ;

Y er N eller CR^3 ;

20 hver R^1 er uavhengig C_{1-4} -alkyl; eller

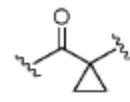
to R^1 -grupper danner en 2-karboners bro;

R^2 er H, halogen eller cyano;

R^3 er H;

Z er cyano;

L er $C(=O)NH$, $C(=O)$, $S(=O)_2$, CH_2 , $C(=O)CH_2$ eller



;

5 A er fenyl, en naftylring, monocyklisk C_{3-10} -cykloalkyl, bicyklisk C_{3-10} -cykloalkyl, monocyklisk C_{2-10} -heterocykloalkyl, bicyklisk C_{2-10} -heterocykloalkyl, monocyklisk C_{1-10} -heteroaryl eller bicyklisk C_{1-10} -heteroaryl; som hver valgfritt kan være substituert med 1, 2, 3, 4 eller 5 uavhengig valgte R^5 -grupper;

10 hver R^5 er uavhengig halogen, cyano, C_{1-6} -alkyl, C_{1-6} -halogenalkyl, C_{6-10} -aryl, C_{1-10} -heteroaryl, OR^a , SR^a , $C(O)OR^a$, NR^cR^d , $NR^cC(O)R^b$; hvor nevnte C_{1-6} -alkyl, C_{1-6} -halogenalkyl, C_{6-10} -aryl og C_{1-10} -heteroaryl hver valgfritt kan være substituert med 1, 2, 3, 4 eller 5 uavhengig valgte R^6 -grupper;

og

n er 0, 1 eller 2; eller

15 f) X er N eller CR^2 ;

Y er N eller CR^3 ;

hver R^1 er uavhengig metyl; eller

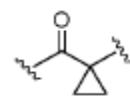
to R^1 -grupper danner en 2-karboners bro;

R^2 er H, halogen eller cyano;

20 R^3 er H;

Z er cyano;

L er $C(=O)NH$, $C(=O)$, $S(=O)_2$, CH_2 , $C(=O)CH_2$ eller



;

A er metyl, etyl, isopropyl, fenyl, en naftalenring, en pyridinring, en pyrimidinring, en tiofenring, en pyrazinring, en oksazolring, en isoksazolring, en imidazolring, en tiazolring, en furanring, en pyrazolring, en kinolinring, en benzotiofenring, en benzotiazolring, en benzoimidazolring, en
 5 benzofuranring, cyklopropyl, cyklopentyl, cykloheksyl, cykloheptyl, en indenring, en tetrahydronaftalenring, dihydro-1,4-benzodioksoksinring eller en piperidinring; som hver valgfritt kan være substituert med 1, 2, 3, 4, 5 eller 6 uavhengig valgte R^5 -grupper, alt ettersom hva valensen tillater;

hver R^5 er uavhengig klor, fluor, brom, cyano, metyl, etyl, trifluormetyl, hydroksyl, metoksy, trifluormetoksy, difluormetoksy, fenoksy,
 10 dimetylamino, t-butylkarbonylamino, metoksykarbonyl, metyltio, fenyl, en pyridinring, en tiazolring, en kinolinring, en isokinolinring, en imidazo-[1,2-a]pyrimidinring, en benzoksazolring eller en oksadiazolring; hvor nevnte fenyl, pyridinring, tiazolring, kinolinring, isokinolinring, imidazo-
 15 [1,2-a]pyrimidinring, benzoksazolring og oksadiazolring hver valgfritt kan være substituert med 1, 2, 3, 4 eller 5 uavhengig valgte R^6 -grupper; og

n er 0, 1 eller 2; eller

g) X er N eller CR^2 ;

Y er N eller CR^3 ;

20 hver R^1 er uavhengig metyl; eller

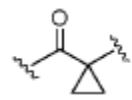
to R^1 -grupper danner en 2-karboners bro;

R^2 er H, halogen eller cyano;

R^3 er H;

Z er cyano;

25 L er $C(=O)NH$, $C(=O)$, $S(=O)_2$, CH_2 , $C(=O)CH_2$ eller



5 A er fenyl, en naftalenring, en pyridinring, en pyrimidinring, en tiofenring, en pyrazinring, en oksazolring, en isoksazolring, en imidazolring, en tiazolring, en furanring, en pyrazolring, en kinolinring, en benzotiofenring, en benzotiazolring, en benzoimidazolring, en benzofuranring, cyklopropyl, cyklopentyl, cykloheksyl, cykloheptyl, en indenring, en tetrahydronaftalenring, dihydro-1,4-benzodioksoksinring eller en piperidinring; som hver valgfritt kan være substituert med 1, 2, 3, 4, 5 eller 6 uavhengig valgte R^5 -grupper;

10 hver R^5 er uavhengig klor, fluor, brom, cyano, metyl, etyl, trifluormetyl, hydroksyl, metoksy, trifluormetoksy, difluormetoksy, fenoksy, dimetylamino, t-butylkarbonylamino, metoksykarbonyl, metyltio, fenyl, en pyridinring, en tiazolring, en kinolinring, en isokinolinring, en imidazo-[1,2-a]pyrimidinring, en benzoksazolring eller en oksadiazolring; hvor nevnte fenyl, pyridinring, tiazolring, kinolinring, isokinolinring, imidazo-
15 [1,2-a]pyrimidinring, benzoksazolring og oksadiazolring hver valgfritt kan være substituert med 1, 2, 3, 4 eller 5 uavhengig valgte R^6 -grupper; og

n er 0, 1 eller 2; eller

h) X er N eller CR^2 ;

Y er N eller CR^3 ;

20 hver R^1 er uavhengig C_{1-4} -alkyl; eller
to R^1 -grupper danner en 2-karboners bro;

R^2 er H, halogen eller cyano;

R^3 er H;

Z er cyano;

25 L er $S(=O)_2$;

A er C_{1-6} -alkyl; og

n er 0, 1 eller 2; eller

i) X er N eller CH;

Y er N;

Z er cyano;

5 L er C(=O) eller C(=O)NH;

A er fenyl eller en pyridinring, som hver valgfritt kan være substituert med 1, 2, 3 eller 4 uavhengig valgte R⁵-grupper;

hver R⁵ er uavhengig halogen eller C₁₋₆-halogenalkyl; og

n er 0; eller

10 j) X er N eller CH;

Y er N;

Z er cyano;

L er C(=O) eller C(=O)NH;

15 A er fenyl eller pyridin-4-yl, som hver valgfritt kan være substituert med 1 eller 2 uavhengig valgte R⁵-grupper;

hver R⁵ er uavhengig fluor eller trifluormetyl; og

n er 0; eller

k) X er N eller CR²;

Y er N eller CR³;

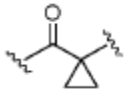
20 hver R¹ er uavhengig C₁₋₄-alkyl, hydroksyl, C₁₋₄-alkoksy eller fluor;

to R^1 -grupper danner sammen en 2- eller 3-karboners bro eller en bro med formel $-\text{CH}_2-\text{O}-\text{CH}_2-$;

R^2 er H, halogen eller cyano;

R^3 er H;

5 Z er cyano;

L er $\text{C}(=\text{O})\text{NH}$, $\text{C}(=\text{O})$, $\text{S}(=\text{O})_2$, $\text{CH}_2-\text{C}(=\text{O})\text{CH}_2$,  $\text{C}(=\text{O})\text{O}$ eller $\text{C}(=\text{O})\text{OCH}_2$;

10 A er C_{1-6} -alkyl, fenyl, en naftylring, monocyklisk C_{3-10} -cykloalkyl, bicyklisk C_{3-10} -cykloalkyl, monocyklisk C_{2-10} -heterocykloalkyl, bicyklisk C_{2-10} -heterocykloalkyl, monocyklisk C_{1-10} -heteroaryl eller bicyklisk C_{1-10} -heteroaryl; som hver valgfritt kan være substituert med 1, 2, 3, 4 eller 5 uavhengig valgte R^5 -grupper;

15 hver R^5 er uavhengig halogen, cyano, C_{1-6} -alkyl, C_{1-6} -halogenalkyl, C_{6-10} -aryl, C_{1-10} -heteroaryl, OR^a , SR^a , $\text{C}(\text{O})\text{OR}^a$, NR^cR^d , $\text{NR}^c\text{C}(\text{O})\text{R}^b$; hvor nevnte C_{1-6} -alkyl, C_{1-6} -halogenalkyl, C_{6-10} -aryl og C_{1-10} -heteroaryl hver valgfritt kan være substituert med 1, 2, 3, 4 eller 5 uavhengig valgte R^6 -grupper;

n er 0, 1 eller 2;

20 hver R^a , R^b , R^c og R^d er uavhengig H, C_{1-6} -alkyl, C_{1-6} -halogenalkyl eller C_{6-10} -aryl; hvor nevnte C_{1-6} -alkyl og C_{6-10} -aryl valgfritt kan være substituert med 1, 2, 3, 4 eller 5 uavhengig valgte R^9 -grupper;

hver R^6 er uavhengig halogen, cyano, C_{1-6} -alkyl, C_{1-6} -halogenalkyl, OR^{a1} , $\text{NR}^{c1}\text{R}^{d1}$ eller $\text{OC}(\text{O})\text{R}^{b1}$; og

25 hver R^{a1} , R^{b1} , R^{c1} og R^{d1} er uavhengig H eller C_{1-6} -alkyl; hvor nevnte C_{1-6} -alkyl valgfritt kan være substituert med en substituent uavhengig valgt fra C_{1-4} -alkoksy og hydroksyl;

eller hvilket som helst R^{c1} og R^{d1} sammen med N-atomet som de er bundet til, danner en 4-, 5-, 6- eller 7-leddet heterocykloalkylgruppe, valgfritt substituert med 1, 2, 3 eller 4 substituenten uavhengig valgt fra halogen.

13. Forbindelse ifølge krav 1, hvor

5 a) forbindelsen er valgt fra:

{1-{1-[3-fluor-2-(trifluormetyl)isonikotinoyl]piperidin-4-yl}-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;

{1-[1-(3-fluor-4-kinolin-6-ylbenzoyl)piperidin-4-yl]-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;

10 {1-[1-(3,5-difluorbenzoyl)piperidin-4-yl]-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;

{3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-1-[1-(3,4,5-trifluorbenzoyl)piperidin-4-yl]azetidin-3-yl}acetonitril;

15 {1-[1-(3-fluor-4-metoksybenzoyl)piperidin-4-yl]-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;

{1-[1-(3-fluor-4-hydroksybenzoyl)piperidin-4-yl]-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;

{1-{1-[2-fluor-3-(trifluormetyl)benzoyl]piperidin-4-yl}-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;

20 {1-[1-(cykloheksylkarbonyl)piperidin-4-yl]-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;

{1-(1-benzoylpiperidin-4-yl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;

25 2-[(4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-azetidin-1-yl}piperidin-1-yl)karbonyl]benzonitril;

- 3-[(4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-azetidin-1-yl}piperidin-1-yl)karbonyl]benzonitril;
- 4-[(4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-azetidin-1-yl}piperidin-1-yl)karbonyl]benzonitril;
- 5 {1-{1-[(6-klorpyridin-2-yl)karbonyl]piperidin-4-yl}-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- {1-[1-(pyrazin-2-ylkarbonyl)piperidin-4-yl]-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;**
- 10 {3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-1-[1-(3-tienylkarbonyl)piperidin-4-yl]azetidin-3-yl}acetonitril;
- {1-[1-(1,3-oksazol-2-ylkarbonyl)piperidin-4-yl]-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- {1-(1-{[2-metyl-5-(trifluormetyl)-1,3-oksazol-4-yl]karbonyl}piperidin-4-yl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- 15 3-[(4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-azetidin-1-yl}piperidin-1-yl)karbonyl]-5-fluorbenzonitril;
- {1-[1-(3-klorbenzoyl)piperidin-4-yl]-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- 20 {1-[1-(3-brombenzoyl)piperidin-4-yl]-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- (3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-1-{1-[3-(trifluormetoksy)benzoyl]piperidin-4-yl}azetidin-3-yl)acetonitril;
- (3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-1-{1-[3-(trifluormetyl)-benzoyl]piperidin-4-yl}azetidin-3-yl)acetonitril;
- 25 {1-{1-[3-fluor-5-(trifluormetyl)benzoyl]piperidin-4-yl}-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;

- {1-[1-(3,5-diklorbenzoyl)piperidin-4-yl]-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- {1-[1-(3-fluorbenzoyl)piperidin-4-yl]-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- 5 {1-[1-(4-fluor-3-metoksybenzoyl)piperidin-4-yl]-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- {1-[1-(2-fluor-5-metoksybenzoyl)piperidin-4-yl]-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- 10 {1-[1-(3-klor-5-fluorbenzoyl)piperidin-4-yl]-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- {1-[1-(3-brom-5-fluorbenzoyl)piperidin-4-yl]-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- {1-{1-[(2,5-diklor-3-tienyl)karbonyl]piperidin-4-yl}-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- 15 {1-[1-(3-metoksybenzoyl)piperidin-4-yl]-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- {3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-1-[1-(2,4,5-trifluor-3-metoksybenzoyl)piperidin-4-yl]azetidin-3-yl}acetonitril;
- 20 {1-[1-(3,5-dimetoksybenzoyl)piperidin-4-yl]-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- {1-[1-(3-klor-4-fluorbenzoyl)piperidin-4-yl]-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- {1-[1-(3,4-difluorbenzoyl)piperidin-4-yl]-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- 25 {1-[1-(3-fluor-5-metoksybenzoyl)piperidin-4-yl]-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;

{1-[1-(2-klor-6-metoksyisonikotinoyl)piperidin-4-yl]-3-[4-(7H-pyrrolo[2,3-d]-pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;

{1-[1-(5-fluor-2-metoksybenzoyl)piperidin-4-yl]-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;

5 {1-[1-(2-fluor-6-metoksybenzoyl)piperidin-4-yl]-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;

{1-[1-(4-fluor-2-metoksybenzoyl)piperidin-4-yl]-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;

10 {1-[1-(2,3-difluorbenzoyl)piperidin-4-yl]-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;

{1-[1-(2,4-difluorbenzoyl)piperidin-4-yl]-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;

{1-[1-(2,5-difluorbenzoyl)piperidin-4-yl]-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;

15 {1-[1-(2,6-difluorbenzoyl)piperidin-4-yl]-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;

{1-{1-[2-fluor-6-(trifluormetyl)benzoyl]piperidin-4-yl}-3-[4-(7H-pyrrolo[2,3-d]-pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;

20 {3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-1-[1-(2,3,4-trifluorbenzoyl)piperidin-4-yl]azetidin-3-yl}acetonitril;

{3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-1-[1-(2,3,6-trifluorbenzoyl)piperidin-4-yl]azetidin-3-yl}acetonitril;

{3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-1-[1-(2,4,5-trifluorbenzoyl)piperidin-4-yl]azetidin-3-yl}acetonitril;

25 {3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-1-[1-(2,4,6-trifluorbenzoyl)piperidin-4-yl]azetidin-3-yl}acetonitril;

- {1-[1-(3,5-dibrom-4-metoksybenzoyl)piperidin-4-yl]-3-[4-(7H-pyrrolo[2,3-d]-pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- 3-[(4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-azetidin-1-yl}piperidin-1-yl)karbonyl]-6-(dimetylamino)-2-fluorbenzonitril;
- 5 {1-{1-[3-fluor-4-(trifluormetyl)benzoyl]piperidin-4-yl}-3-[4-(7H-pyrrolo[2,3-d]-pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- {1-(1-{[4-klor-6-(trifluormetyl)pyridin-2-yl]karbonyl}piperidin-4-yl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- 10 {3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-1-[1-(2,3,4,5-tetrafluorbenzoyl)piperidin-4-yl]azetidin-3-yl}acetonitril;
- 5-[(4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-azetidin-1-yl}piperidin-1-yl)karbonyl]-2-metoksybenzonitril;
- {3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-1-[1-(2,3,5,6-tetrafluorbenzoyl)piperidin-4-yl]azetidin-3-yl}acetonitril;
- 15 (3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-1-{1-[2-(trifluormetyl)-isonikotinoyl]piperidin-4-yl}azetidin-3-yl)acetonitril;
- {1-[1-(4-fluor-3-hidroksybenzoyl)piperidin-4-yl]-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- 20 5-[(4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-azetidin-1-yl}piperidin-1-yl)karbonyl]-2-(dimetylamino)benzonitril;
- {1-{1-[4-(dimetylamino)-2,3,5,6-tetrafluorbenzoyl]piperidin-4-yl}-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- {1-[1-(3,5-difluorisonikotinoyl)piperidin-4-yl]-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- 25 {1-{1-[3-fluor-4-(metyltio)benzoyl]piperidin-4-yl}-3-[4-(7H-pyrrolo[2,3-d]-pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;

- {1-[1-(4-klor-3-fluorbenzoyl)piperidin-4-yl]-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- {1-[1-(3-fluor-4-metylbenzoyl)piperidin-4-yl]-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- 5 {1-[1-(2,5-dimetyl-3-furoyl)piperidin-4-yl]-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- 4-[(4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-azetidin-1-yl}piperidin-1-yl)karbonyl]-2-fluorbenzonitril;
- 10 {1-[1-(2-fluorbenzoyl)piperidin-4-yl]-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- {1-[1-(4-fluorbenzoyl)piperidin-4-yl]-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- {1-[1-(2-tienylkarbonyl)piperidin-4-yl]-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- 15 {1-{1-[3-metoksy-5-(trifluormetyl)-2-tienylkarbonyl]piperidin-4-yl}-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- {1-{1-[3-hidroksy-5-(trifluormetyl)-2-tienylkarbonyl]piperidin-4-yl}-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- 20 {1-{1-[(4-metoksy-3-tienyl)karbonyl]piperidin-4-yl}-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- {1-{1-[(5-metyl-3-tienyl)karbonyl]piperidin-4-yl}-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- {1-{1-[(5-klor-4-metoksy-3-tienyl)karbonyl]piperidin-4-yl}-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- 25 {1-{1-[(2-brom-3-tienyl)karbonyl]piperidin-4-yl}-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;

- {1-{1-[(3-klor-2-tienyl)karbonyl]piperidin-4-yl}-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- {1-{1-[(5-klor-2-tienyl)karbonyl]piperidin-4-yl}-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- 5 {1-{1-[(3-metyl-2-tienyl)karbonyl]piperidin-4-yl}-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- {1-{1-[(4-metyl-2-tienyl)karbonyl]piperidin-4-yl}-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- {1-{1-[(5-metyl-2-tienyl)karbonyl]piperidin-4-yl}-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- 10 {1-{1-[(3-metoksy-2-tienyl)karbonyl]piperidin-4-yl}-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- {1-{1-[2-fluor-4-(trifluormetyl)benzoyl]piperidin-4-yl}-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- {1-{1-[2-fluor-4-(trifluormetyl)benzoyl]piperidin-4-yl}-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- 15 4-[(4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-azetidin-1-yl}piperidin-1-yl)karbonyl]-3,5-difluorbenzonitril;
- {1-[1-(3-klor-4-hidroksybenzoyl)piperidin-4-yl]-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- [3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-1-(1-{[2-(trifluormetyl)-pyrimidin-4-yl]karbonyl}piperidin-4-yl)azetidin-3-yl]acetonitril;
- 20 [3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-1-(1-{[6-(trifluormetyl)-pyrazin-2-yl]karbonyl}piperidin-4-yl)azetidin-3-yl]acetonitril;
- {1-[1-(1-naftoyl)piperidin-4-yl]-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- 25 {3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-1-[1-(kinolin-3-ylkarbonyl)piperidin-4-yl]azetidin-3-yl}acetonitril;

- {3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-1-[1-(kinolin-6-ylkarbonyl)piperidin-4-yl]azetidin-3-yl}acetonitril;
- {1-[1-(1-benzotien-2-ylkarbonyl)piperidin-4-yl]-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- 5 {1-{1-[(3-klor-6-fluor-1-benzotien-2-yl)karbonyl]piperidin-4-yl}-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- {1-{1-[(3-klor-4-fluor-1-benzotien-2-yl)karbonyl]piperidin-4-yl}-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- 10 [3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-1-(1-{[4-(trifluormetyl)-1-benzotien-2-yl]karbonyl}piperidin-4-yl)azetidin-3-yl]acetonitril;
- [3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-1-(1-{[6-(trifluormetyl)-1-benzotien-2-yl]karbonyl}piperidin-4-yl)azetidin-3-yl]acetonitril;
- [3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-1-(1-{[7-(trifluormetyl)-1-benzotien-2-yl]karbonyl}piperidin-4-yl)azetidin-3-yl]acetonitril;
- 15 {1-[1-(1-benzotien-3-ylkarbonyl)piperidin-4-yl]-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- {3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-1-[1-(1,2,3,4-tetrahydronaftalen-2-ylkarbonyl)piperidin-4-yl]azetidin-3-yl}acetonitril;
- 20 [3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-1-(1-{[4-(trifluormetyl)-cykloheksyl]karbonyl}piperidin-4-yl)azetidin-3-yl]acetonitril;
- {1-[1-(2,3-dihydro-1H-inden-2-ylkarbonyl)piperidin-4-yl]-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- {1-{1-[(4,4-difluorcykloheksyl)karbonyl]piperidin-4-yl}-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- 25 {1-[1-(cyklopentylkarbonyl)piperidin-4-yl]-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;

{1-[1-(cykloheptylkarbonyl)piperidin-4-yl]-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;

{1-{1-[(3-metoksycykloheksyl)karbonyl]piperidin-4-yl}-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;

- 5 {1-{1-[(4-fenylcykloheksyl)karbonyl]piperidin-4-yl}-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;

{1-(1-{[4-(4-klorfenyl)cykloheksyl]karbonyl}piperidin-4-yl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;

- 10 6-{4-[(4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-1-yl}piperidin-1-yl)karbonyl]piperidin-1-yl}nikotinonitril;

{1-(1-{[1-(5-klor-3-fluorpyridin-2-yl)piperidin-4-yl]karbonyl}piperidin-4-yl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;

2-{4-[(4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-1-yl}piperidin-1-yl)karbonyl]piperidin-1-yl}-6-metylnikotinonitril;

- 15 {1-[1-(fenylacetyl)piperidin-4-yl]-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;

{1-{1-[(1-fenylcyklopropyl)karbonyl]piperidin-4-yl}-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;

- 20 {1-(1-{[1-(4-klorfenyl)cyklopropyl]karbonyl}piperidin-4-yl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;

{1-{1-[(2,6-diklorfenyl)acetyl]piperidin-4-yl}-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;

{1-[1-(mesitylacetyl)piperidin-4-yl]-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;

- 25 {1-[1-(bifenyl-4-ylkarbonyl)piperidin-4-yl]-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;

- {1-[1-(3-fluor-4-isokinolin-6-ylbenzoyl)piperidin-4-yl]-3-[4-(7H-pyrrolo[2,3-d]-pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- {1-[1-(2,6-difluor-4-pyridin-3-ylbenzoyl)piperidin-4-yl]-3-[4-(7H-pyrrolo[2,3-d]-pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- 5 {1-[1-(3-fluor-4-pyridin-4-ylbenzoyl)piperidin-4-yl]-3-[4-(7H-pyrrolo[2,3-d]-pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- 4'-[(4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-azetidin-1-yl}piperidin-1-yl)karbonyl]-2'-fluorbifenyl-4-karbonitril;
- 4'-[(4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-azetidin-1-yl}piperidin-1-yl)karbonyl]-2',3-difluorbifenyl-4-karbonitril;
- 10 {1-[1-(2-fluor-4-pyridin-3-ylbenzoyl)piperidin-4-yl]-3-[4-(7H-pyrrolo[2,3-d]-pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- {1-{1-[4-fluor-3-(1,3-tiazol-2-yl)benzoyl]piperidin-4-yl}-3-[4-(7H-pyrrolo[2,3-d]-pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- 15 {1-{1-[3-fluor-4-(1,3-tiazol-2-yl)benzoyl]piperidin-4-yl}-3-[4-(7H-pyrrolo[2,3-d]-pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- {1-[1-(3-fluor-4-pyridin-3-ylbenzoyl)piperidin-4-yl]-3-[4-(7H-pyrrolo[2,3-d]-pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- 4'-[(4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-azetidin-1-yl}piperidin-1-yl)karbonyl]-2'-fluorbifenyl-2-karbonitril;
- 20 4'-[(4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-azetidin-1-yl}piperidin-1-yl)karbonyl]-2'-fluorbifenyl-3-karbonitril;
- 4'-[(4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-azetidin-1-yl}piperidin-1-yl)karbonyl]bifenyl-4-karbonitril;
- 25 (3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-1-{1-[(2,3',4'-trifluorbifenyl-4-yl)karbonyl]piperidin-4-yl}azetidin-3-yl)acetonitril;

- 4'-[(4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-azetidin-1-yl}piperidin-1-yl)karbonyl]-2',5-difluorbifenyl-3-karbonitril;
- {1-[1-(3-fluor-4-kinolin-5-ylbenzoyl)piperidin-4-yl]-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- 5 {1-[1-(3-fluor-4-isokinolin-5-ylbenzoyl)piperidin-4-yl]-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- {1-[1-(3-fluor-4-isokinolin-8-ylbenzoyl)piperidin-4-yl]-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- 10 {1-[1-(3-fluor-4-kinolin-8-ylbenzoyl)piperidin-4-yl]-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- {1-[1-(3-fluor-4-isokinolin-7-ylbenzoyl)piperidin-4-yl]-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- {1-[1-(3-fluor-4-kinolin-7-ylbenzoyl)piperidin-4-yl]-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- 15 {1-[1-(3-fluor-4-imidazo[1,2-a]pyridin-6-ylbenzoyl)piperidin-4-yl]-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- {1-{1-[4-(1,3-benzoksazol-2-yl)benzoyl]piperidin-4-yl}-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- {1-{1-[4-(1,3-benzoksazol-2-yl)-3-fluorbenzoyl]piperidin-4-yl}-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- 20 [3-[(3-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-azetidin-1-yl}-8-azabicyklo[3.2.1]okt-8-yl)karbonyl]-5-fluorbenzonitril;
- {1-[8-(3,4-difluorbenzoyl)-8-azabicyklo[3.2.1]okt-3-yl]-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- 25 4-[(3-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-azetidin-1-yl}-8-azabicyklo[3.2.1]okt-8-yl)karbonyl]-2-fluorbenzonitril;

- {1-[8-(4-klor-3-fluorbenzoyl)-8-azabicyklo[3.2.1]okt-3-yl]-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- {1-{8-[3-fluor-2-(trifluormetyl)isonikotinoyl]-8-azabicyklo[3.2.1]okt-3-yl}-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- 5 [3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-1-(8-{[6-(trifluormetyl)-pyridin-3-yl]karbonyl}-8-azabicyklo[3.2.1]okt-3-yl)azetidin-3-yl]acetonitril;
- (3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-1-{8-[2-(trifluormetyl)-isonikotinoyl]-8-azabicyklo[3.2.1]okt-3-yl}azetidin-3-yl)acetonitril;
- {1-[8-(cyklopentylkarbonyl)-8-azabicyklo[3.2.1]okt-3-yl]-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- 10 {3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-1-[8-(tetrahydro-2H-pyran-4-ylkarbonyl)-8-azabicyklo[3.2.1]okt-3-yl]azetidin-3-yl}acetonitril;
- {1-[8-(cykloheksylkarbonyl)-8-azabicyklo[3.2.1]okt-3-yl]-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- 15 {1-{8-[(4,4-difluorcykloheksyl)karbonyl]-8-azabicyklo[3.2.1]okt-3-yl}-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- {1-[1-(3-fluorbenzoyl)-2-metyl]piperidin-4-yl]-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- {1-[1-(3-fluorbenzoyl)-2-metyl]piperidin-4-yl]-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- 20 {1-{1-[(4,4-difluorcykloheksyl)karbonyl]-2-metyl]piperidin-4-yl}-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- {1-[1-(3-fluorbenzoyl)-4-metyl]piperidin-4-yl]-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- 25 {1-[1-(cykloheksylkarbonyl)-4-metyl]piperidin-4-yl]-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;

- 4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-azetidin-1-yl}-N-[4-fluor-2-(trifluormetyl)fenyl]piperidin-1-karboksamid;
- 4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-azetidin-1-yl}-N-[3-(trifluormetyl)pyridin-4-yl]piperidin-1-karboksamid;
- 5 4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-azetidin-1-yl}-N-(2,6-difluorfenyl)piperidin-1-karboksamid;
- 4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-azetidin-1-yl}-N-[2-(trifluormetyl)fenyl]piperidin-1-karboksamid;
- 4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-azetidin-1-yl}-N-[2-(trifluormetoksy)fenyl]piperidin-1-karboksamid;
- 10
- N-(4-brom-3-tienyl)-4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-1-yl}piperidin-1-karboksamid;
- 4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-azetidin-1-yl}-N-(2,6-diklorfenyl)piperidin-1-karboksamid;
- 15 N-(2-klor-6-metylfenyl)-4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-1-yl}piperidin-1-karboksamid;
- N-(2-klor-4-fluorfenyl)-4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-1-yl}piperidin-1-karboksamid;
- N-(2-klorfenyl)-4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-1-yl}piperidin-1-karboksamid;
- 20
- 4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-azetidin-1-yl}-N-[2-(difluormetoksy)fenyl]piperidin-1-karboksamid;
- 4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-azetidin-1-yl}-N-[4-(trifluormetyl)pyridin-3-yl]piperidin-1-karboksamid;
- 25 4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-azetidin-1-yl}-N-[3-(trifluormetyl)fenyl]piperidin-1-karboksamid;

4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-
azetidin-1-yl}-N-[4-(trifluormetyl)fenyl]piperidin-1-karboksamid;

N-(5-klor-2-metylfenyl)-4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-
1H-pyrazol-1-yl]azetidin-1-yl}piperidin-1-karboksamid;

5 4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-
azetidin-1-yl}-N-(2-fluorfenyl)piperidin-1-karboksamid;

4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-
azetidin-1-yl}-N-[2-fluor-3-(trifluormetyl)fenyl]piperidin-1-karboksamid;

10 4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-
azetidin-1-yl}-N-(2,4-difluorfenyl)piperidin-1-karboksamid;

4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-
azetidin-1-yl}-N-(2,3,4-trifluorfenyl)piperidin-1-karboksamid;

4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-
azetidin-1-yl}-N-(2,3,5-trifluorfenyl)piperidin-1-karboksamid;

15 4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-
azetidin-1-yl}-N-(2,5-difluorfenyl)piperidin-1-karboksamid;

4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-
azetidin-1-yl}-N-(3,5-difluorfenyl)piperidin-1-karboksamid;

20 4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-
azetidin-1-yl}-N-(3,4-difluorfenyl)piperidin-1-karboksamid;

N-(3-klor-2-fluorfenyl)-4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-
1H-pyrazol-1-yl]azetidin-1-yl}piperidin-1-karboksamid;

N-(4-klor-2-fluorfenyl)-4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-
1H-pyrazol-1-yl]azetidin-1-yl}piperidin-1-karboksamid;

25 4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-
azetidin-1-yl}-N-3-tienylpiperidin-1-karboksamid;

- 4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-azetidin-1-yl}-N-(2-metoksyfenyl)piperidin-1-karboksamid;
- 4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-azetidin-1-yl}-N-(3-metoksyfenyl)piperidin-1-karboksamid;
- 5 4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-azetidin-1-yl}-N-[4-(trifluormetoksy)fenyl]piperidin-1-karboksamid;
- N-(3-klorfenyl)-4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-1-yl}piperidin-1-karboksamid;
- 10 N-(4-klorfenyl)-4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-1-yl}piperidin-1-karboksamid;
- 4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-azetidin-1-yl}-N-(2-metylfenyl)piperidin-1-karboksamid;
- 4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-azetidin-1-yl}-N-(2,5-dimetoksyfenyl)piperidin-1-karboksamid;
- 15 4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-azetidin-1-yl}-N-(4-fluor-2-metylfenyl)piperidin-1-karboksamid;
- 4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-azetidin-1-yl}-N-[6-(trifluormetyl)pyridin-2-yl]piperidin-1-karboksamid;
- 4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-azetidin-1-yl}-N-(2,6-dimetylpyridin-3-yl)piperidin-1-karboksamid;
- 20 4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-azetidin-1-yl}-N-1,3-tiazol-2-ylpiperidin-1-karboksamid;
- 4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-azetidin-1-yl}-N-(4-metyl-1,3-tiazol-2-yl)piperidin-1-karboksamid;
- 25 4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-azetidin-1-yl}-N-(4,5-dimetyl-1,3-tiazol-2-yl)piperidin-1-karboksamid;

- N-1,3-benzotiazol-2-yl-4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-1-yl}piperidin-1-karboksamid;
- 4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-azetidin-1-yl}-N-(1-metyl-1H-benzimidazol-2-yl)piperidin-1-karboksamid;
- 5 N-[4-(4-klorfenyl)-1,3-tiazol-2-yl]-4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-1-yl}piperidin-1-karboksamid;
- 4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-azetidin-1-yl}-N-(1-etyl-1H-pyrazol-5-yl)piperidin-1-karboksamid;
- 10 4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-azetidin-1-yl}-N-(1,3-dimetyl-1H-pyrazol-5-yl)piperidin-1-karboksamid;
- 4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-azetidin-1-yl}-N-(2-metylpyridin-3-yl)piperidin-1-karboksamid;
- 4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-azetidin-1-yl}-N-(6-fluor-2-metylpyridin-3-yl)piperidin-1-karboksamid;
- 15 4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-azetidin-1-yl}-N-(2-fluor-6-metylpyridin-3-yl)piperidin-1-karboksamid;
- 4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-azetidin-1-yl}-N-[3-(trifluormetyl)pyridin-2-yl]piperidin-1-karboksamid;
- 20 4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-azetidin-1-yl}-N-(3-fluorpyridin-2-yl)piperidin-1-karboksamid;
- 4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-azetidin-1-yl}-N-(3,5-difluorpyridin-2-yl)piperidin-1-karboksamid;
- 4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-azetidin-1-yl}-N-(2-metoksyppridin-3-yl)piperidin-1-karboksamid;
- 25 4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-azetidin-1-yl}-N-[2-metyl-6-(trifluormetyl)pyridin-3-yl]piperidin-1-karboksamid;

- metyl-2-{{(4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-1-yl}piperidin-1-yl)karbonyl]amino}benzoat;
- metyl-2-{{(4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-1-yl}piperidin-1-yl)karbonyl]amino}-5-fluorbenzoat;
- 5 metyl-4-{{(4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-1-yl}piperidin-1-yl)karbonyl]amino}-3-fluorbenzoat;
- 3-[(4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-azetidin-1-yl}piperidin-1-yl)metyl]-6-(dimetylamino)-2-fluorbenzonitril;
- 10 {1-[1-(3,5-diklorbenzyl)piperidin-4-yl]-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- {1-{1-[2-klor-5-(trifluormetyl)benzyl]piperidin-4-yl}-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- {1-{1-[2-fluor-3-(trifluormetyl)benzyl]piperidin-4-yl}-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- 15 {1-{1-[2-fluor-6-(trifluormetyl)benzyl]piperidin-4-yl}-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- {1-{1-[(2-klorikinolin-3-yl)metyl]piperidin-4-yl}-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- 20 {1-[1-(3,5-difluorbenzyl)piperidin-4-yl]-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- {1-{1-[2-fluor-4-(trifluormetyl)benzyl]piperidin-4-yl}-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- {1-[1-(2,4-difluorbenzyl)piperidin-4-yl]-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- 25 {1-[1-(2-fluor-6-metoksybenzyl)piperidin-4-yl]-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;

- {1-[1-(2,3-diklorbenzyl)piperidin-4-yl]-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- 5-[(4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-azetidin-1-yl}piperidin-1-yl)metyl]-2-fluorbenzonitril;
- 5 {1-{1-[4-(1,2,3-oksadiazol-4-yl)benzyl]piperidin-4-yl}-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- 2-[(4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-azetidin-1-yl}piperidin-1-yl)metyl]benzonitril;
- 10 3-[(4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-azetidin-1-yl}piperidin-1-yl)metyl]benzonitril;
- 6-[(4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-azetidin-1-yl}piperidin-1-yl)metyl]-2-metoksynikotinonitril;
- {1-{1-[(2,6-dibrompyridin-4-yl)metyl]piperidin-4-yl}-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- 15 {1-{1-[(2-brompyridin-4-yl)metyl]piperidin-4-yl}-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- {1-[1-(2-klor-6-fluorbenzyl)piperidin-4-yl]-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- 20 {1-[1-(3-klor-2,6-difluorbenzyl)piperidin-4-yl]-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- 4-[(4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-azetidin-1-yl}piperidin-1-yl)metyl]-2-fluorbenzonitril;
- {1-{1-[(5-metyl-3-fenylisoksazol-4-yl)metyl]piperidin-4-yl}-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- 25 {1-(1-{[3-fluor-2-(trifluormetyl)pyridin-4-yl]metyl}piperidin-4-yl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;

{1-[1-(1-benzofuran-2-ylmetyl)piperidin-4-yl]-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;

{1-[1-(3-fenoksybenzyl)piperidin-4-yl]-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;

- 5 {1-[1-(2,3-dihydro-1,4-benzodioksin-6-ylmetyl)piperidin-4-yl]-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;

N-{4-[(4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-1-yl}piperidin-1-yl)metyl]pyridin-2-yl}-2,2-dimetylpropanamid;

- 10 {1-{1-[3-klor-2-fluor-6-(trifluormetyl)benzyl]piperidin-4-yl}-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;

{1-{1-[(3,5-diklorpyridin-4-yl)metyl]piperidin-4-yl}-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;

{1-{1-[(2-klor-6-metoksykinolin-3-yl)metyl]piperidin-4-yl}-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;

- 15 {1-[1-(2-klor-3,4-dimetoksybenzyl)piperidin-4-yl]-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;

3-[(3-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-azetidin-1-yl}-8-azabicyklo[3.2.1]okt-8-yl)metyl]-6-(dimetylamino)-2-fluorbenzonitril;

- 20 {1-[8-(2-klor-3,6-difluorbenzyl)-8-azabicyklo[3.2.1]okt-3-yl]-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;

3-[(4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-azetidin-1-yl}-2-metyl)piperidin-1-yl)metyl]-6-(dimetylamino)-2-fluorbenzonitril;

- 25 3-[(4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-azetidin-1-yl}-2-metyl)piperidin-1-yl)metyl]-6-(dimetylamino)-2-fluorbenzonitril;

{1-[1-(2-klor-6-fluorbenzyl)-2-metylpiperidin-4-yl]-3-[4-(7H-pyrrolo[2,3-d]-pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;

{1-[1-(2-klor-6-fluorbenzyl)-2-metylpiperidin-4-yl]-3-[4-(7H-pyrrolo[2,3-d]-pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;

- 5 {1-{1-[(1-metyl-1H-pyrazol-5-yl)sulfonyl]piperidin-4-yl}-3-[4-(7H-pyrrolo[2,3-d]-pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;

2-[(4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-azetidin-1-yl}piperidin-1-yl)sulfonyl]benzonitril;

- 10 3-[(4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-azetidin-1-yl}piperidin-1-yl)sulfonyl]benzonitril;

4-[(4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-azetidin-1-yl}piperidin-1-yl)sulfonyl]benzonitril;

5-[(4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-azetidin-1-yl}piperidin-1-yl)sulfonyl]-2-(dimetylamino)benzonitril;

- 15 {1-{1-[(1-metyl-1H-pyrazol-3-yl)sulfonyl]piperidin-4-yl}-3-[4-(7H-pyrrolo[2,3-d]-pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;

{1-[1-(cykloheksylsulfonyl)piperidin-4-yl]-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;

- 20 {1-[1-(cyklopentylsulfonyl)piperidin-4-yl]-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;

{1-[1-(metylsulfonyl)piperidin-4-yl]-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;

{1-[1-(etylsulfonyl)piperidin-4-yl]-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;

- 25 {1-[1-(cyklopropylsulfonyl)piperidin-4-yl]-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;

- {1-[1-(isopropylsulfonyl)piperidin-4-yl]-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- {1-{1-[(1-metyl-1H-imidazol-4-yl)sulfonyl]piperidin-4-yl}-3-[4-(7H-pyrrolo[2,3-d]-pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- 5 {1-{1-[(1,2-dimetyl-1H-imidazol-4-yl)sulfonyl]piperidin-4-yl}-3-[4-(7H-pyrrolo-
[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- {1-{1-[(3,5-dimetylisoksazol-4-yl)sulfonyl]piperidin-4-yl}-3-[4-(7H-pyrrolo[2,3-d]-pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- 10 {1-{1-[3-fluor-2-(trifluormetyl)isonikotinoyl]piperidin-4-yl}-3-[3-(7H-pyrrolo-
[2,3-d]pyrimidin-4-yl)-1H-pyrrol-1-yl]azetidin-3-yl}acetonitril;
- 3-[(4-{3-(cyanometyl)-3-[3-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrrol-1-yl]-azetidin-1-yl}piperidin-1-yl)karbonyl]benzonitril;
- 3-[(4-{3-(cyanometyl)-3-[3-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrrol-1-yl]-azetidin-1-yl}piperidin-1-yl)karbonyl]-5-fluorbenzonitril;
- 15 4-[(4-{3-(cyanometyl)-3-[3-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrrol-1-yl]-azetidin-1-yl}piperidin-1-yl)karbonyl]-3-fluorbenzonitril;
- 4-[(4-{3-(cyanometyl)-3-[3-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrrol-1-yl]-azetidin-1-yl}piperidin-1-yl)karbonyl]-3,5-difluorbenzonitril;
- 20 {1-{1-[5-fluor-2-(trifluormetyl)benzoyl]piperidin-4-yl}-3-[3-(7H-pyrrolo[2,3-d]-pyrimidin-4-yl)-1H-pyrrol-1-yl]azetidin-3-yl}acetonitril;
- {1-{1-[3-fluor-4-(trifluormetyl)benzoyl]piperidin-4-yl}-3-[3-(7H-pyrrolo[2,3-d]-pyrimidin-4-yl)-1H-pyrrol-1-yl]azetidin-3-yl}acetonitril;
- (3-[3-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrrol-1-yl]-1-{1-[3-(trifluormetyl)-benzoyl]piperidin-4-yl}azetidin-3-yl)acetonitril;
- 25 {1-{1-[2-fluor-5-(trifluormetoksy)benzoyl]piperidin-4-yl}-3-[3-(7H-pyrrolo[2,3-d]-pyrimidin-4-yl)-1H-pyrrol-1-yl]azetidin-3-yl}acetonitril;

{3-[3-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrrol-1-yl]-1-[1-(2,3,6-trifluorbenzoyl)piperidin-4-yl]azetidin-3-yl}acetonitril;

{3-[3-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrrol-1-yl]-1-[1-(2-tienylkarbonyl)piperidin-4-yl]azetidin-3-yl}acetonitril;

5 {1-{1-[2-fluor-4-(trifluormetyl)benzoyl]piperidin-4-yl}-3-[3-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrrol-1-yl]azetidin-3-yl}acetonitril;

{1-{1-[2-fluor-5-(trifluormetyl)benzoyl]piperidin-4-yl}-3-[3-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrrol-1-yl]azetidin-3-yl}acetonitril;

10 {1-{1-[3-fluor-5-(trifluormetyl)benzoyl]piperidin-4-yl}-3-[3-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrrol-1-yl]azetidin-3-yl}acetonitril;

{1-{1-[4-fluor-3-(trifluormetyl)benzoyl]piperidin-4-yl}-3-[3-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrrol-1-yl]azetidin-3-yl}acetonitril;

{1-[1-(2,3-difluorbenzoyl)piperidin-4-yl]-3-[3-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrrol-1-yl]azetidin-3-yl}acetonitril;

15 {1-[1-(3,4-difluorbenzoyl)piperidin-4-yl]-3-[3-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrrol-1-yl]azetidin-3-yl}acetonitril;

{1-[1-(2,5-difluorbenzoyl)piperidin-4-yl]-3-[3-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrrol-1-yl]azetidin-3-yl}acetonitril;

20 {1-[1-(2,6-difluorbenzoyl)piperidin-4-yl]-3-[3-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrrol-1-yl]azetidin-3-yl}acetonitril;

{3-[3-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrrol-1-yl]-1-[1-(2,3,4-trifluorbenzoyl)piperidin-4-yl]azetidin-3-yl}acetonitril;

{1-{1-[2-fluor-3-(trifluormetoksy)benzoyl]piperidin-4-yl}-3-[3-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrrol-1-yl]azetidin-3-yl}acetonitril;

25 {1-{1-[4-hydroksy-3-(trifluormetyl)benzoyl]piperidin-4-yl}-3-[3-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrrol-1-yl]azetidin-3-yl}acetonitril;

- 4-{3-(cyanometyl)-3-[3-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrrol-1-yl]azetidin-1-yl}-N-[4-fluor-2-(trifluormetyl)fenyl]piperidin-1-karboksamid;
- 4-{3-(cyanometyl)-3-[3-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrrol-1-yl]azetidin-1-yl}-N-(2-metoksypyridin-3-yl)piperidin-1-karboksamid;
- 5 4-{3-(cyanometyl)-3-[3-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrrol-1-yl]azetidin-1-yl}-N-[2-metyl-6-(trifluormetyl)pyridin-3-yl]piperidin-1-karboksamid;
- 4-{3-(cyanometyl)-3-[3-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrrol-1-yl]azetidin-1-yl}-N-(2,4-difluorfenyl)piperidin-1-karboksamid;
- 4-{3-(cyanometyl)-3-[3-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrrol-1-yl]azetidin-1-yl}-N-(2-cyanofenyl)piperidin-1-karboksamid;
- 10 1-yl}-N-(2-cyanofenyl)piperidin-1-karboksamid;
- 4-{3-(cyanometyl)-3-[3-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrrol-1-yl]azetidin-1-yl}-N-(2-metoksifyfenyl)piperidin-1-karboksamid;
- N-(2-klor-4-fluorfenyl)-4-{3-(cyanometyl)-3-[3-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrrol-1-yl]azetidin-1-yl}piperidin-1-karboksamid;
- 15 4-{3-(cyanometyl)-3-[3-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrrol-1-yl]azetidin-1-yl}-N-[3-(trifluormetyl)pyridin-2-yl]piperidin-1-karboksamid;
- 4-{3-(cyanometyl)-3-[3-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrrol-1-yl]azetidin-1-yl}-N-[4-(trifluormetyl)pyridin-3-yl]piperidin-1-karboksamid;
- 4-{3-(cyanometyl)-3-[3-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrrol-1-yl]azetidin-1-yl}-N-(3-fluorpyridin-2-yl)piperidin-1-karboksamid;
- 20 1-yl}-N-(3-fluorpyridin-2-yl)piperidin-1-karboksamid;
- N-(4-klor-2-cyanofenyl)-4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-1-yl}piperidin-1-karboksamid;
- {1-{1-[3-fluor-2-(trifluormetyl)isonikotinoyl]piperidin-4-yl}-3-[4-(1H-pyrrolo[2,3-b]pyridin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- 25 4-[(4-{3-(cyanometyl)-3-[4-(1H-pyrrolo[2,3-b]pyridin-4-yl)-1H-pyrazol-1-yl]-azetidin-1-yl}piperidin-1-yl)karbonyl]-3-fluorbenzonitril;

{1-[1-(3-fluor-4-hydroksybenzoyl)piperidin-4-yl]-3-[4-(1H-pyrrolo[2,3-b]pyridin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;

{1-[1-(2-fluor-4-hydroksybenzoyl)piperidin-4-yl]-3-[4-(1H-pyrrolo[2,3-b]pyridin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;

- 5 {1-{1-[5-klor-2-(trifluormetyl)isonikotinoyl]piperidin-4-yl}-3-[4-(1H-pyrrolo[2,3-b]pyridin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;

[3-[4-(1H-pyrrolo[2,3-b]pyridin-4-yl)-1H-pyrazol-1-yl]-1-(1-{[2-(trifluormetyl)-pyrimidin-4-yl]karbonyl}piperidin-4-yl)azetidin-3-yl]acetonitril;

- 10 [3-[4-(1H-pyrrolo[2,3-b]pyridin-4-yl)-1H-pyrazol-1-yl]-1-(1-{[6-(trifluormetyl)-pyrazin-2-yl]karbonyl}piperidin-4-yl)azetidin-3-yl]acetonitril;

[3-[4-(1H-pyrrolo[2,3-b]pyridin-4-yl)-1H-pyrazol-1-yl]-1-(1-{[5-(trifluormetyl)-pyrazin-2-yl]karbonyl}piperidin-4-yl)azetidin-3-yl]acetonitril;

{1-{1-[(4,4-difluorcykloheksyl)karbonyl]piperidin-4-yl}-3-[4-(1H-pyrrolo[2,3-b]pyridin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;

- 15 4-{3-(cyanometyl)-3-[4-(1H-pyrrolo[2,3-b]pyridin-4-yl)-1H-pyrazol-1-yl]azetidin-1-yl}-N-[4-fluor-2-(trifluormetyl)fenyl]piperidin-1-karboksamid;

4-{3-(cyanometyl)-3-[4-(1H-pyrrolo[2,3-b]pyridin-4-yl)-1H-pyrazol-1-yl]azetidin-1-yl}-N-(2,4-difluorfenyl)piperidin-1-karboksamid;

- 20 N-(2-klor-4-fluorfenyl)-4-{3-(cyanometyl)-3-[4-(1H-pyrrolo[2,3-b]pyridin-4-yl)-1H-pyrazol-1-yl]azetidin-1-yl}piperidin-1-karboksamid;

4-{3-(cyanometyl)-3-[4-(1H-pyrrolo[2,3-b]pyridin-4-yl)-1H-pyrazol-1-yl]azetidin-1-yl}-N-(2-metoksypyridin-3-yl)piperidin-1-karboksamid;

4-{3-(cyanometyl)-3-[4-(1H-pyrrolo[2,3-b]pyridin-4-yl)-1H-pyrazol-1-yl]azetidin-1-yl}-N-[3-(trifluormetyl)pyridin-4-yl]piperidin-1-karboksamid;

- 25 4-{3-(cyanometyl)-3-[4-(1H-pyrrolo[2,3-b]pyridin-4-yl)-1H-pyrazol-1-yl]azetidin-1-yl}-N-[4-(trifluormetyl)pyridin-3-yl]piperidin-1-karboksamid;

4-{3-(cyanometyl)-3-[4-(1H-pyrrolo[2,3-b]pyridin-4-yl)-1H-pyrazol-1-yl]azetidin-1-yl}-N-(2-fluorfenyl)piperidin-1-karboksamid;

N-(2-klorfenyl)-4-{3-(cyanometyl)-3-[4-(1H-pyrrolo[2,3-b]pyridin-4-yl)-1H-pyrazol-1-yl]azetidin-1-yl}piperidin-1-karboksamid;

5 4-{3-(cyanometyl)-3-[4-(1H-pyrrolo[2,3-b]pyridin-4-yl)-1H-pyrazol-1-yl]azetidin-1-yl}-N-[4-cyano-2-(trifluormetyl)fenyl]piperidin-1-karboksamid;

N-(4-cyano-2-fluorfenyl)-4-{3-(cyanometyl)-3-[4-(1H-pyrrolo[2,3-b]pyridin-4-yl)-1H-pyrazol-1-yl]azetidin-1-yl}piperidin-1-karboksamid;

10 N-(2-klor-4-cyanofenyl)-4-{3-(cyanometyl)-3-[4-(1H-pyrrolo[2,3-b]pyridin-4-yl)-1H-pyrazol-1-yl]azetidin-1-yl}piperidin-1-karboksamid;

(3-[4-(5-fluor-1H-pyrrolo[2,3-b]pyridin-4-yl)-1H-pyrazol-1-yl]-1-{1-[3-fluor-2-(trifluormetyl)isonikotinoyl]piperidin-4-yl}azetidin-3-yl)acetonitril;

5-[(4-{3-(cyanometyl)-3-[4-(5-fluor-1H-pyrrolo[2,3-b]pyridin-4-yl)-1H-pyrazol-1-yl]azetidin-1-yl}piperidin-1-yl)karbonyl]isoftalonitril;

15 3-[(4-{3-(cyanometyl)-3-[4-(5-fluor-1H-pyrrolo[2,3-b]pyridin-4-yl)-1H-pyrazol-1-yl]azetidin-1-yl}piperidin-1-yl)karbonyl]-5-fluorbenzonitril;

4-[(4-{3-(cyanometyl)-3-[4-(5-fluor-1H-pyrrolo[2,3-b]pyridin-4-yl)-1H-pyrazol-1-yl]azetidin-1-yl}piperidin-1-yl)karbonyl]-3-fluorbenzonitril;

20 5-[(4-{3-(cyanometyl)-3-[4-(5-fluor-1H-pyrrolo[2,3-b]pyridin-4-yl)-1H-pyrazol-1-yl]azetidin-1-yl}piperidin-1-yl)karbonyl]-2-fluorbenzonitril;

{1-{1-[(5-fluorpyridin-2-yl)karbonyl]piperidin-4-yl}-3-[4-(5-fluor-1H-pyrrolo[2,3-b]pyridin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;

{1-[1-(3-fluorisonikotinoyl)piperidin-4-yl]-3-[4-(5-fluor-1H-pyrrolo[2,3-b]pyridin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;

25 {1-[1-(3,5-difluorisonikotinoyl)piperidin-4-yl]-3-[4-(5-fluor-1H-pyrrolo[2,3-b]pyridin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;

- {1-[1-(3-fluor-4-hydroksybenzoyl)piperidin-4-yl]-3-[4-(5-fluor-1H-pyrrolo[2,3-b]-pyridin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- {1-[1-(2-fluor-4-hydroksybenzoyl)piperidin-4-yl]-3-[4-(5-fluor-1H-pyrrolo[2,3-b]-pyridin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- 5 2-[(4-{3-(cyanometyl)-3-[4-(5-fluor-1H-pyrrolo[2,3-b]pyridin-4-yl)-1H-pyrazol-1-yl]azetidin-1-yl}piperidin-1-yl)karbonyl]tereftalonitril;
- 4-[(4-{3-(cyanometyl)-3-[4-(5-fluor-1H-pyrrolo[2,3-b]pyridin-4-yl)-1H-pyrazol-1-yl]azetidin-1-yl}piperidin-1-yl)karbonyl]-2-fluorbenzonitril;
- 10 {1-{1-[5-klor-2-(trifluormetyl)isonikotinoyl]piperidin-4-yl}-3-[4-(5-fluor-1H-pyrrolo[2,3-b]pyridin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- {1-{1-[(4,4-difluorcykloheksyl)karbonyl]piperidin-4-yl}-3-[4-(5-fluor-1H-pyrrolo[2,3-b]pyridin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- 4-{3-(cyanometyl)-3-[4-(5-fluor-1H-pyrrolo[2,3-b]pyridin-4-yl)-1H-pyrazol-1-yl]-azetidin-1-yl}-N-[4-fluor-2-(trifluormetyl)fenyl]piperidin-1-karboksamid;
- 15 4-{3-(cyanometyl)-3-[4-(5-fluor-1H-pyrrolo[2,3-b]pyridin-4-yl)-1H-pyrazol-1-yl]-azetidin-1-yl}-N-[3-(trifluormetyl)pyridin-2-yl]piperidin-1-karboksamid;
- 4-{3-(cyanometyl)-3-[4-(5-fluor-1H-pyrrolo[2,3-b]pyridin-4-yl)-1H-pyrazol-1-yl]-azetidin-1-yl}-N-[4-(trifluormetyl)pyridin-3-yl]piperidin-1-karboksamid;
- 4-{3-(cyanometyl)-3-[4-(5-fluor-1H-pyrrolo[2,3-b]pyridin-4-yl)-1H-pyrazol-1-yl]-azetidin-1-yl}-N-[3-(trifluormetyl)pyridin-4-yl]piperidin-1-karboksamid;
- 20 4-[1-(3-(cyanometyl)-1-{1-[3-fluor-2-(trifluormetyl)isonikotinoyl]piperidin-4-yl}-azetidin-3-yl)-1H-pyrazol-4-yl]-1H-pyrrolo[2,3-b]pyridin-5-karbonitril;
- 4-{1-[1-[1-(3-cyano-5-fluorbenzoyl)piperidin-4-yl]-3-(cyanometyl)azetidin-3-yl]-1H-pyrazol-4-yl}-1H-pyrrolo[2,3-b]pyridin-5-karbonitril;
- 25 4-{1-[1-[1-(4-cyano-3-fluorbenzoyl)piperidin-4-yl]-3-(cyanometyl)azetidin-3-yl]-1H-pyrazol-4-yl}-1H-pyrrolo[2,3-b]pyridin-5-karbonitril;

- 4-(1-{3-(cyanometyl)-1-[1-(2,5-dibrombenzoyl)piperidin-4-yl]azetidin-3-yl}-1H-pyrazol-4-yl)-1H-pyrrolo[2,3-b]pyridin-5-karbonitril;
- 4-(1-{3-(cyanometyl)-1-[1-(3,5-dibrombenzoyl)piperidin-4-yl]azetidin-3-yl}-1H-pyrazol-4-yl)-1H-pyrrolo[2,3-b]pyridin-5-karbonitril;
- 5 2-[(4-{3-(cyanometyl)-3-[4-(5-cyano-1H-pyrrolo[2,3-b]pyridin-4-yl)-1H-pyrazol-1-yl]azetidin-1-yl}piperidin-1-yl)karbonyl]tereftalonitril;
- 5-[(4-{3-(cyanometyl)-3-[4-(5-cyano-1H-pyrrolo[2,3-b]pyridin-4-yl)-1H-pyrazol-1-yl]azetidin-1-yl}piperidin-1-yl)karbonyl]isoftalonitril;
- 10 4-{1-[1-[1-(4-cyano-2-fluorbenzoyl)piperidin-4-yl]-3-(cyanometyl)azetidin-3-yl]-1H-pyrazol-4-yl}-1H-pyrrolo[2,3-b]pyridin-5-karbonitril;
- 4-{1-[1-[1-(4-cyano-2,6-difluorbenzoyl)piperidin-4-yl]-3-(cyanometyl)azetidin-3-yl]-1H-pyrazol-4-yl}-1H-pyrrolo[2,3-b]pyridin-5-karbonitril;
- 4-{1-[1-{1-[5-klor-2-(trifluormetyl)isonikotinoyl]piperidin-4-yl}-3-(cyanometyl)-azetidin-3-yl]-1H-pyrazol-4-yl}-1H-pyrrolo[2,3-b]pyridin-5-karbonitril;
- 15 {1-{1-[5-klor-2-(trifluormetyl)isonikotinoyl]piperidin-4-yl}-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- {1-{1-[5-fluor-2-(trifluormetyl)isonikotinoyl]piperidin-4-yl}-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;
- [3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-1-(1-{[4-(trifluormetyl)-1,3-tiazol-2-yl]karbonyl}piperidin-4-yl)azetidin-3-yl]acetonitril;
- 20 [3-[3-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrrol-1-yl]-1-(1-{[2-(trifluormetyl)-pyrimidin-4-yl]karbonyl}piperidin-4-yl)azetidin-3-yl]acetonitril;
- [3-[3-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrrol-1-yl]-1-(1-{[4-(trifluormetyl)-1,3-tiazol-2-yl]karbonyl}piperidin-4-yl)azetidin-3-yl]acetonitril;
- 25 [3-[3-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrrol-1-yl]-1-(1-{[5-(trifluormetyl)-pyrazin-2-yl]karbonyl}piperidin-4-yl)azetidin-3-yl]acetonitril;

{1-[1-(metylsulfonyl)piperidin-4-yl]-3-[3-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrrol-1-yl]azetidin-3-yl}acetonitril;

[3-[4-(1H-pyrrolo[2,3-b]pyridin-4-yl)-1H-pyrazol-1-yl]-1-(1-{[5-(trifluormetyl)-pyrazin-2-yl]karbonyl}piperidin-4-yl)azetidin-3-yl]acetonitril;

- 5 [3-[4-(1H-pyrrolo[2,3-b]pyridin-4-yl)-1H-pyrazol-1-yl]-1-(1-{[4-(trifluormetyl)-1,3-tiazol-2-yl]karbonyl}piperidin-4-yl)azetidin-3-yl]acetonitril;

{1-[1-(metylsulfonyl)piperidin-4-yl]-3-[4-(1H-pyrrolo[2,3-b]pyridin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;

- 10 [3-[4-(5-fluor-1H-pyrrolo[2,3-b]pyridin-4-yl)-1H-pyrazol-1-yl]-1-(1-{[6-(trifluormetyl)pyrazin-2-yl]karbonyl}piperidin-4-yl)azetidin-3-yl]acetonitril;

[3-[4-(5-fluor-1H-pyrrolo[2,3-b]pyridin-4-yl)-1H-pyrazol-1-yl]-1-(1-{[2-(trifluormetyl)pyrimidin-4-yl]karbonyl}piperidin-4-yl)azetidin-3-yl]acetonitril;

[3-[4-(5-fluor-1H-pyrrolo[2,3-b]pyridin-4-yl)-1H-pyrazol-1-yl]-1-(1-{[5-(trifluormetyl)pyrazin-2-yl]karbonyl}piperidin-4-yl)azetidin-3-yl]acetonitril;

- 15 {3-[4-(5-fluor-1H-pyrrolo[2,3-b]pyridin-4-yl)-1H-pyrazol-1-yl]-1-[1-(metylsulfonyl)piperidin-4-yl]azetidin-3-yl}acetonitril;

4-[1-(3-(cyanometyl)-1-{1-[5-fluor-2-(trifluormetyl)isonikotinoyl]piperidin-4-yl}-azetidin-3-yl)-1H-pyrazol-4-yl]-1H-pyrrolo[2,3-b]pyridin-5-karbonitril; og

- 20 4-(1-{3-(cyanometyl)-1-[1-(metylsulfonyl)piperidin-4-yl]azetidin-3-yl}-1H-pyrazol-4-yl)-1H-pyrrolo[2,3-b]pyridin-5-karbonitril;

eller et farmasøytisk akseptabelt salt av hvilken som helst av de ovennevnte forbindelser; eller

b) forbindelsen er valgt fra:

- 25 cis-{1-{(3-metoksy-1-[3-fluor-2-(trifluormetyl)isonikotinoyl]piperidin-4-yl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;

{1-(cis-3-metoksy-1-{[2-(trifluormetyl)pyrimidin-4-yl]karbonyl}piperidin-4-yl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;

{1-{cis-3-fluor-1-[3-fluor-2-(trifluormetyl)isonikotinoyl]piperidin-4-yl}-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;

5 {1-(cis-3-fluor-1-{[2-(trifluormetyl)pyrimidin-4-yl]karbonyl}piperidin-4-yl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;

{1-{1-[3-fluor-2-(trifluormetyl)isonikotinoyl]-4-deuteropiperidin-4-yl}-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;

10 {1-{1-[3-fluor-2-(trifluormetyl)isonikotinoyl]-3,3,4,5,5-pentadeuteropiperidin-4-yl}-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}-acetonitril;

{1-{7-[3-fluor-2-(trifluormetyl)isonikotinoyl]-3-oksa-7-azabicyklo[3.3.1]non-9-yl}-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;

15 {1-(1-{[4-[(dimetylamino)metyl]-6-(trifluormetyl)pyridin-2-yl]karbonyl}piperidin-4-yl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}-acetonitril;

4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-azetidin-1-yl}-N-isopropylpiperidin-1-karboksamid;

20 {1-{1-[6-[(dimetylamino)metyl]-3-fluor-2-(trifluormetyl)isonikotinoyl]piperidin-4-yl}-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}-acetonitril;

3-[(4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-azetidin-1-yl}piperidin-1-yl)karbonyl]-5-[(dimetylamino)metyl]benzonitril;

25 {1-(1-{[6-[(dimetylamino)metyl]-2-(trifluormetyl)pyrimidin-4-yl]karbonyl}-piperidin-4-yl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;

{1-(1-{[6-[(metylamino)metyl]-2-(trifluormetyl)pyrimidin-4-yl]karbonyl}piperidin-4-yl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}-acetonitril;

5 {1-(1-{[6-(azetidin-1-ylmetyl)-2-(trifluormetyl)pyrimidin-4-yl]karbonyl}piperidin-4-yl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}-acetonitril;

{1-(1-{[6-[(dietylamino)metyl]-2-(trifluormetyl)pyrimidin-4-yl]karbonyl}piperidin-4-yl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}-acetonitril;

10 {1-(1-{[6-{[etyl(metyl)amino)metyl]-2-(trifluormetyl)pyrimidin-4-yl]karbonyl}piperidin-4-yl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;

{1-(1-{3-(difluormetyl)-5-[(dimetylamino)metyl]benzoyl}piperidin-4-yl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;

15 {1-(1-{[6-(pyrrolidin-1-ylmetyl)-2-(trifluormetyl)pyrimidin-4-yl]karbonyl}piperidin-4-yl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}-acetonitril;

20 {1-(1-{[6-{[(3S)-3-fluorpyrrolidin-1-yl]metyl]-2-(trifluormetyl)pyrimidin-4-yl]karbonyl}piperidin-4-yl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;

{1-(1-{[6-{[(3R)-3-fluorpyrrolidin-1-yl]metyl]-2-(trifluormetyl)pyrimidin-4-yl]karbonyl}piperidin-4-yl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;

25 {1-(1-{[6-[(3,3-difluorpyrrolidin-1-yl)metyl]-2-(trifluormetyl)pyrimidin-4-yl]karbonyl}piperidin-4-yl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;

{1-(1-{[6-[(tert-butylamino)metyl]-2-(trifluormetyl)pyrimidin-4-yl]karbonyl}piperidin-4-yl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;

{1-(1-{[6-(hydroksymetyl)-2-(trifluormetyl)pyrimidin-4-yl]karbonyl}piperidin-4-yl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}-acetonitril;

5 {1-(1-{[6-[(isopropylamino)metyl]-2-(trifluormetyl)pyrimidin-4-yl]karbonyl}-piperidin-4-yl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;

{1-(1-{[6-[(etylamino)metyl]-2-(trifluormetyl)pyrimidin-4-yl]karbonyl}piperidin-4-yl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}-acetonitril;

10 {1-(1-{[6-{[(2-metoksyetyl)(metyl)amino]metyl}-2-(trifluormetyl)pyrimidin-4-yl]-karbonyl}piperidin-4-yl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-azetidin-3-yl}acetonitril;

15 {1-(1-{[6-{[(3-hydroksypropyl)(metyl)amino]metyl}-2-(trifluormetyl)pyrimidin-4-yl]karbonyl}piperidin-4-yl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril;

propyl-4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-azetidin-1-yl}piperidin-1-karboksylat;

cyklobutylmetyl-4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-1-yl}piperidin-1-karboksylat;

20 etyl-4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]-azetidin-1-yl}piperidin-1-karboksylat;

benzyl-4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-1-yl}piperidin-1-karboksylat;

25 isobutyl-4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-1-yl}piperidin-1-karboksylat;

cyklopropylmetyl-4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-1-yl}piperidin-1-karboksylat;

(1-metylcyklopropyl)metyl-4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-1-yl}piperidin-1-karboksylat;

2,4-difluorbenzyl-4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-1-yl}piperidin-1-karboksylat;

- 5 3,4-difluorbenzyl-4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-1-yl}piperidin-1-karboksylat;

3,5-difluorbenzyl-4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-1-yl}piperidin-1-karboksylat;

- 10 cyklopentylmetyl-4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-1-yl}piperidin-1-karboksylat; og

cykloheksylmetyl-4-{3-(cyanometyl)-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-1-yl}piperidin-1-karboksylat;

eller et farmasøytisk akseptabelt salt av hvilken som helst av de ovenfor nevnte forbindelser.

- 15 14. Forbindelse ifølge krav 1, som er {1-{1-[3-fluor-2-(trifluormetyl)-isonikotinoyl]piperidin-4-yl}-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitril eller et farmasøytisk akseptabelt salt derav.

15. Salt ifølge krav 1, som er {1-{1-[3-fluor-2-(trifluormetyl)isonikotinoyl]piperidin-4-yl}-3-[4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl]azetidin-3-yl}acetonitriladipinsyresalt.
- 20

16. Salt ifølge krav 15, som kjennetegnes ved et smeltepunkt rundt 178°C.

17. Salt ifølge krav 15 eller 16 som har

- a) et differensielt scanningkalorimetritermogram som kjennetegnes ved en endoterm topp med en starttemperatur rundt 176°C; eller
- 25 b) et differensielt scanningkalorimetritermogram i det vesentlige som vist på fig. 1.

18. Salt ifølge et hvilket som helst av kravene 15 til 17, som har et termalgravimetrisk analysetermogram i det vesentlige som vist på fig. 2.
19. Salt ifølge et hvilket som helst av kravene 15 til 18 som har
- a) et røntgenpulverdiffraksjonsmønster som omfatter en karakteristisk topp uttrykt i grader 2θ rundt 10,4; eller
 - b) et røntgenpulverdiffraksjonsmønster som omfatter en karakteristisk topp uttrykt i grader 2θ rundt 6,9; eller
 - c) et røntgenpulverdiffraksjonsmønster som omfatter en karakteristisk topp uttrykt i grader 2θ rundt 21,0; eller
 - d) et røntgenpulverdiffraksjonsmønster som omfatter en karakteristisk topp uttrykt i grader 2θ rundt 23,3; eller
 - e) et røntgenpulverdiffraksjonsmønster som omfatter en karakteristisk topp uttrykt i grader 2θ rundt 6,9, 10,4, 21,0 og 23,3; eller
 - f) et røntgenpulverdiffraksjonsmønster i det vesentlige som vist på fig. 3.
20. Sammensetning omfattende en forbindelse eller et salt ifølge et hvilket som helst av kravene 1 til 19 og en farmasøytisk akseptabel bærer.
21. Forbindelse eller salt ifølge et hvilket som helst av kravene 1 til 19 for anvendelse i en fremgangsmåte for å modulere en aktivitet av JAK1.
22. Forbindelse eller salt for anvendelse ifølge krav 21, hvor nevnte forbindelse eller farmasøytisk akseptable salt derav er selektivt for JAK1 fremfor JAK2.
23. Forbindelse eller salt ifølge et hvilket som helst av kravene 1 til 19 for anvendelse ved behandling av en autoimmun sykdom, en kreftart, en myeloproliferativ forstyrrelse, en inflammatorisk sykdom, en benresorpsjonssykdom eller organtransplantatutstøtning i en pasient som har behov for det.

24. Forbindelse eller salt for anvendelse ifølge krav 23, hvor
- a) nevnte autoimmune sykdom er en hudlidelse, multippel sklerose, reumatoid artritt, psoriatisk artritt, juvenil artritt, type I-diabetes, lupus, inflammatorisk tarmsykdom, Crohn's sykdom, myasthenia gravis, immunoglobulinnefropatier, myokarditt eller autoimmun skjoldbruskforstyrrelse; eller
 - b) nevnte autoimmune sykdom er reumatoid artritt; eller
 - c) nevnte autoimmune sykdom er en hudlidelse; eller
 - d) nevnte autoimmune sykdom er en hudlidelse som er atopisk dermatitt, psoriasis, hudsensibilisering, hudirritasjon, hudutslett, kontaktdermatitt eller allergisk kontaktsensibilisering; eller
 - e) nevnte kreftart er en fast svulst; eller
 - f) nevnte kreftart er prostatakreft, nyrekreft, leverkreft, brystkreft, lungekreft, skjoldbruskkjertelkreft, Kaposi sarkom, Castlemans sykdom eller bukspyttkjertelkreft; eller
 - g) nevnte kreftart er lymfom, leukemi eller multippelt myeloma; eller
 - h) nevnte myeloproliferative forstyrrelse er polycytemi vera (PV), essensiell trombocytemi (ET), myeloid metaplasia med myelofibrose (MMM), primær myelofibrose (PMF), kronisk myelogen leukemi (CML), kronisk myelomonocytisk leukemi (CMML), hypereosinofilt syndrom (HES), idiopatisk myelofibrose (IMF) eller systemisk mastcellesykdom (SMCD); eller
 - i) nevnte myeloproliferative forstyrrelse er myelofibrose; eller
 - j) nevnte myeloproliferative forstyrrelse er primær myelofibrose (PMF); eller
 - k) nevnte benresorpsjonssykdom er osteoporose, osteoartritt, benresorpsjon forbundet med hormonell ubalanse, benresorpsjon forbundet med hormonterapi, benresorpsjon forbundet med autoimmun sykdom, eller benresorpsjon forbundet med kreft.