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(73)	Proprietor	Libertas Bio, Inc., 997 Lenox Drive, Suite 220 Princeton Pike Corporate Center, Lawrenceville, NJ 08648, USA
(72)	Inventor	Venkatesan, Aranapakam, 97-07 63rd Road, Apt. 9K, Rego Park, NY 11374, USA Smith, Roger Astbury, 206 Bayberry Drive, Chester Springs, PA 19425, USA Hosahalli, Subramanya, A-103 Temple Meadows No. 3 27th Cross Banashankari II Stage, 560070 Bangalore, India Potluri, Vijay, F 202 MIG-II 686 Srinivasa Plaza KPHB Colony, 500072 Hyderabad Andhra Pradesh, India Panigrahi, Sunil Kumar, Kantamal AT/PO Boudh District, 762017 Orissa, India Basetti, Vishnu, F 213 Block II RBR Complex Miyapur, 500049 Hyderabad Andhra Pradesh, India Kuntu, Karunasree, H.No: 8-3-231/422B Sri Krishna Nagar Yousufguda, 500045 Hyderabad Andhra Pradesh, India
(74)	Agent or Attorney	Budde Schou A/S, Dronningens Tværgade 30, 1302 KØBENHAVN K, Danmark

(54) Title **PYRIMIDO- PYRIDAZINONE COMPOUNDS AND USE THEREOF**

(56) References

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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 (I) for bruk i behandling av kreft, autoimmun sykdom, inflammatorisk sykdom, bensykdommer, metabolske sykdommer, nevrologiske og nevrodegenerative sykdommer, kardiovaskulære sykdommer, allergier, astma, Alzheimers sykdom, hormonrelaterte sykdommer, revmatoid artritt og faste og hematologiske maligniteter, hvorved forbindelsen med formel (I) administreres til en pasient i en terapeutisk effektiv mengde:



(I)

hvor:

R^1 er NR^4R^5 , eventuelt substituert C_1 til C_6 alkoksy, eventuelt substituert C_6 til C_{14} aryl, eventuelt substituert heteroaryl, eventuelt substituert 3-10-leddet monocyklisk eller bicyklisk cykloalkyl, eller eventuelt substituert 3-10-leddet monocyklisk eller bicyklisk heterocyklisk, hvor:

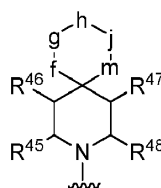
- (i) 3-4-leddet cykloalkyl og heterosyklyl er mettet;
- (ii) hydrogenatomer på samme karbonatom i nevnte cykloalkyl eller heterosyklyl er eventuelt erstattet med en eventuelt substituert 3-6-leddet cykloalkyl eller heterosyklyl for å danne en spirocykloalkyl eller spiroheterosyklyl; og
- (iii) hydrogenatomer på det samme atom i nevnte cykloalkyl eller heterosyklyl er eventuelt erstattet med O for å danne en oksosubstituent;

R^2 er eventuelt substituert fenyl, -O- (C_1 til C_6 alkyl) eventuelt substituert fenyl, eller eventuelt substituert 5-6-leddet heteroaryl, med det forbehold at når R^2 er 4-pyridyl, mangler 4-pyridyl en karbonylsubstituent i 2. posisjon;

R^4 og R^5 er:

- (a) uavhengig valgt fra gruppen bestående av H, C₁ til C₆ alkyl, C₁ til C₆ hydroksyalkyl, C₃ til C₈ cykloalkyl og -(C₁ til C₆ alkyl)N(C₁ til C₆ alkyl)(C₁ til C₆ alkyl); eller
- (b) sammenføyde for å danne en eventuelt substituert 3-8-leddet heterocyklyl, hvor;
 - (bi) hydrogenatomer på samme karbonatom i nevnte heterocyklyl er eventuelt erstattet med en eventuelt substituert 3-6-leddet cykloalkyl eller heterocyklyl for å danne en spirocykloalkyl eller spiroheterocyklyl; og
 - (bii) hydrogenatomer på det samme atom av nevnte heterocyklyl (b), cykloalkyl (bi) eller heterocyklyl (bi), er eventuelt erstattet med O for å danne en oksosubstituent;
 eller et farmasøytisk akseptabelt salt eller ester derav.
- 2. Forbindelse for bruk i henhold til krav 1, hvor den autoimmune sykdommen er en eller flere av transplantasjonsavvisning, revmatoid artritt, amyotrofisk lateralsklerose, multippel sklerose og vaskulitt.
- 3. Forbindelse for bruk i henhold til krav 1, hvor R² er fenyl substituert med C(O)NR⁴R⁵.
- 4. Forbindelse for bruk i henhold til krav 1, hvor R² er fenyl substituert med NR⁴R⁵.
- 5. Forbindelse for bruk ifølge krav 1, hvor R² er fenyl substituert med (C₁ til C₆ alkyl)NR⁴R⁵.
- 6. Forbindelse for bruk i henhold til krav 1, hvor R⁴ og R⁵ er sammenføyet for å danne et eventuelt substituert piperidin eller diazepan.
- 7. Forbindelse for bruk ifølge krav 1, hvor R² er fenyl substituert med (C₁ til C₆ alkyl)NR⁴R⁵.
- 8. Forbindelse for bruk ifølge krav 7, hvor R⁴ og R⁵ er (C₁ til C₆ hydroksyalkyl).

9. Forbindelse for bruk i henhold til krav 4, hvor R^4 og R^5 er sammenføyet for å danne en eventuelt substituert 6-leddet ring.
10. Forbindelse for bruk ifølge krav 1, hvor R^2 er et heteroaryl substituert med (C₁ til C₆ alkyl)NR⁴R⁵.
11. Forbindelse for bruk ifølge krav 1, hvor R^2 er et heteroaryl substituert med NR⁴R⁵.
12. Forbindelse for anvendelse ifølge krav 1, hvor R^2 er fenyl substituert med én eller flere C₁ til C₆ alkoksy, (C₁ til C₆ alkyl)halogen, C₁ til C₆ trifluoralkoksy, (C₁ til C₆ alkyl)C(O)OH, halogen, eventuelt substituert C₃ til C₈ cykloalkyl, eventuelt substituert heterosyklyl, eventuelt substituert heteroaryl, -O- (C₁ til C₆ alkyl)C(O)OH, -O- (C₁ til C₆ alkyl) -NR⁴R⁵, -O- (eventuelt substituert heterosyklus), -O (C₁ til C₆ alkyl) -N (C₁ til C₆ alkyl) (C₁ til C₆ alkyl), -O- (C₁ til C₆ alkyl)NH₂, C₁ til C₆ hydroksyalkyl, -O- (C₁ til C₆ hydroksyalkyl), O- (C₁ til C₆ alkyl) -C (O)OH, -C₁ til C₆ alkoksy-C₁ til C₆ alkoksy, O- (heterosyklus)-(C₁ til C₆ hydroksyalkyl), SO₂-(C₁ til C₆ alkyl), eller -(C₁ til C₆ alkyl)-(C₁ til C₆ alkoksy)-halogen.
13. Forbindelse for bruk ifølge krav 1, hvor R^2 er fenyl substituert med -O-(C₁ til C₆ alkyl)-heterocyklus.
14. Forbindelse for anvendelse ifølge krav 1, hvor R^1 er N(C₁ til C₆ alkyl) (C₁ til C₆ alkyl) eller C₁ til C₆ alkoksy.
15. Forbindelse for bruk ifølge krav 1, hvor R^1 eventuelt er substituert fenyl.
16. Forbindelse for bruk ifølge krav 1, hvor R^1 eventuelt er substituert 5-9-leddet mettet heterocyklyl.
17. Forbindelse for bruk i henhold til krav 1, hvor R^1 er en heterocyklyl av strukturen:



hvor:

f, g, h, j og m er uavhengig fraværende, (CH_2) , $CH(R^3)$, Z eller $C=O$;

R^3 er H, $C(O)OH$ eller $C(O)O(C_1 \text{ til } C_6 \text{ alkyl})$;

R^{45} , R^{46} , R^{47} og R^{48} er, uavhengig av hverandre, H eller C_1 til C_6 alkyl; og

Z er O, S, SO, SO_2 eller NH.

18. Forbindelse for bruk ifølge krav 1, hvor R^1 er en heteroaryl.
19. Forbindelse for bruk ifølge krav 1, hvor R^1 er en monocyklisk C_3 til C_8 sykloalkyl.
20. Forbindelse for bruk ifølge krav 1, hvor R^1 er piperidin substituert med $C(O)(C_1 \text{ til } C_6 \text{ alkyl})CN$.
21. Forbindelse for bruk i henhold til krav 1, hvor forbindelsen er et salt av en syre.
22. Forbindelse for bruk ifølge krav 21, hvor nevnte syre er valgt fra gruppen bestående av eddiksyre, propionsyre, melkesyre, sitronsyre, vinsyre, ravsyre, fumarsyre, maleinsyre, malonsyre, mandelsyre, eplesyre, ftalsyre, saltsyre, hydrobromsyre, fosforsyre, salpetersyre, svovelsyre, metansulfonsyre, naftalensulfonsyre, benzensulfonsyre, toluensulfonsyre, trifluoreddiksyre og kamfersulfonsyre.
23. Forbindelse for bruk i henhold til krav 1, hvor forbindelsen er:
 - 4-(4-morfolinofenylamino)-2-fenylpyrimido[4,5-d]pyridazin-5(6H)-on;
 - metyl-4-(5-okso-4-(4-(piperazin-1-ylmetyl)fenylamino)-5,6-dihydropyrimido[4,5-d]pyridazin-2-yl)benzoathydroklorid;
 - 2-morfolino-4-(4-(piperazin-1-ylmetyl)fenylamino)pyrimido[4,5-d]pyridazin-5(6H)-on-hydroklorid;
 - 4-(4-(morfolinometyl)fenylamino)-2-fenylpyrimido[4,5-d]pyridazin-5(6H)-on;
 - 4-(4-(4-etyl-piperazin-1-yl)fenylamino)-2-fenylpyrimido[4,5-d]pyridazin-5(6H)-on;

4-(4-((4-ethylpiperazin-1-yl)methyl)fenylamino)-2-fenylpyrimido[4,5-d]pyridazin-5(6H)-on;
 2-fenyl-4-(4-(piperazin-1-ylmethyl)fenylamino)pyrimido[4,5-d]pyridazin-5(6H)-on-hydroklorid;
 2-fenyl-4-(4-(piperazin-1-yl)fenylamino)pyrimido[4,5-d]pyridazin-5(6H)-on;
 4-(4-(morfolin-4-karbonyl)fenylamino)-2-fenylpyrimido[4,5-d]pyridazin-5(6H)-on;
 4-(4-(bis(2-hidroksyetyl)amino)fenylamino)-2-fenylpyrimido[4,5-d]pyridazin-5(6H)-on;
 4-(4-(4-(2-aminoacetyl)piperazin-1-yl)fenylamino)-2-fenylpyrimido[4,5-d]pyridazin-5(6H)-on-hydroklorid;
 2-(4-(4-(5-okso-2-fenyl-5,6-dihydropyrimido[4,5-d]pyridazin-4-ylamino)fenyl)piperazin-1-yl)eddiksyre;
 1-(4-(5-okso-2-fenyl-5,6-dihydropyrimido[4,5-d]pyridazin-4-ylamino)fenyl)piperidin-4-karboksylsyre;
 4-(4-(4-(2-aminoacetyl)piperazin-1-yl)fenylamino)-2-fenylpyrimido[4,5-d]pyridazin-5(6H)-on;
 N-(2-(dimetylamino)etyl)-N-metyl-4-(5-okso-2-fenyl-5,6-dihydropyrimido[4,5-d]pyridazin-4-ylamino)benzamid;
 4-(4-(2-okso-1,7-diazaspiro[3.5]nonan-7-yl)fenylamino)-2-fenylpyrimido[4,5-d]pyridazin-5(6H)-on;
 4-(4-(2-oksa-7-azaspiro[3.5]nonan-7-yl)fenylamino)-2-fenylpyrimido[4,5-d]pyridazin-5(6H)-on;
 4-(4-morfolinofenylamino)-2-(6-azaspiro[2,5]oktan-6-yl)pyrimido[4,5-d]pyridazin-5(6H)-on;
 6-(4-(5-okso-2-fenyl-5,6-dihydropyrimido[4,5-d]pyridazin-4-ylamino)fenyl)-6-azaspiro[2,5]oktan-1-karboksylsyre;
 etyl-6-(4-(5-okso-2-fenyl-5,6-dihydropyrimido[4,5-d]pyridazin-4-ylamino)fenyl)-6-azaspiro[2,5]oktan-1-karboksylat;
 6-(4-(5-okso-2-fenyl-5,6-dihydropyrimido[4,5-d]pyridazin-4-ylamino)benzyl)-6-azaspiro[2,5]oktan-1-karboksylsyre;

natrium-6- (4- (5-okso-2-fenyl-5,6-dihydropyrimido [4,5-d]pyridazin-4-ylamino) fenyl) -6-azaspiro[2,5]oktan-1-karboksylat;
 4- (4- (2-oksa-7-azaspiro[3.5]nonan-7-ylmetyl) fenylamino) -2-fenylpyrimido[4,5-d]pyridazin-5(6H)-on;
 4- (4- (piperazin-1-ylmetyl) fenylamino) -2- (tiofen-3-yl)pyrimido[4,5-d]pyridazin-5(6H)-on hydroklorid;
 6- (5-okso-4- (4- (piperazin-1-ylmetyl) fenylamino) -5,6-dihydropyrimido [4,5-d] pyridazin-2-yl) -6-azaspiro [2,5]oktan-1-karboksylsyre-hydroklorid;
 4- (4- (4-etyl piperazin-1-yl) fenylamino) -2-morfolinopyrimido[4,5-d]pyridazin-5(6H)-on;
 4- (5-okso-4- (4- (piperazin-1-ylmetyl) fenylamino) -5,6-dihydropyrimido [4,5-d] pyridazin-2-yl)benzosyrehydroklorid;
 4- (4- (4-etyl piperazin-1-yl) fenylamino) -2- (4- (trifluormetoksy) fenyl)pyrimido[4,5-d]pyridazin-5(6H)-on;
 metyl-4- (4- (4-morfolinofenylamino) -5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-2-yl)benzoat;
 4- (4- (piperazin-1-ylmetyl) fenylamino) -2- (piperidin-1-yl)pyrimido[4,5-d]pyridazin-5(6H)-on hydroklorid;
 2- (3-metoksyfenyl) -4- (4- (piperazin-1-ylmetyl) fenylamino)pyrimido[4,5-d]pyridazin-5(6H)-on hydroklorid;
 2- (piperazin-1-yl) -4- (4- (piperazin-1-ylmetyl) fenylamino)pyrimido[4,5-d]pyridazin-5(6H)-on dihydroklorid;
 2- (benzo[d][1,3]dioksol-5-yl) -4- (4- (piperazin-1-ylmetyl) fenylamino)pyrimido[4,5-d]pyridazin-5(6H)-on hydroklorid;
 2- (1- (4- (5-okso-2-fenyl-5,6-dihydropyrimido[4,5-d]pyridazin-4-ylamino) fenyl) piperidin-4-yl)eddiksyre;
 1- (4- (5-okso-2-fenyl-5,6-dihydropyrimido[4,5-d] pyridazin-4-ylamino)benzyl) piperidin-4-karboksylsyre;

2-(2-metoksyfenyl)-4-(4-(piperazin-1-ylmetyl) fenylamino)pyrimido[4,5-d]pyridazin-5(6H)-on hydroklorid;

4-(4-(4-etylpiperazin-1-yl) fenylamino)-2-(tiofen-3-yl)pyrimido[4,5-d]pyridazin-5(6H)-on hydroklorid;

9-(5-okso-4-(4-(piperazin-1-ylmetyl) fenylamino)-5,6-dihydropyrimido[4,5-d] pyridazin-2-yl)-3,9-diazaspiro [5.5] undekan-2,4-dion-hydroklorid;

6-(4-(5-okso-2-(tiofen-3-yl)-5,6-dihydropyrimido[4,5-d]pyridazin-4-ylamino) fenyl)-6-azaspiro [2,5] oktan-1-karboksylsyre;

2-(4-klorfenyl)-4-(4-(piperazin-1-ylmetyl) fenylamino)pyrimido[4,5-d]pyridazin-5(6H)-on hydroklorid;

2-(4-metoksyfenyl)-4-(4-(piperazin-1-ylmetyl) fenylamino)pyrimido[4,5-d]pyridazin-5(6H)-on hydroklorid;

6-(4-((2-morfolino-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl) amino) fenyl)-6-azaspiro [2,5] oktan-1-karboksylsyre;

2-(1-(5-okso-4-((4-(piperazin-1-ylmetyl) fenyl) amino)-5,6-dihydropyrimido [4,5-d] pyridazin-2-yl)piperidin-4-yl) eddiksyrehydroklorid;

2-(1-oksidotiomorfolino)-4-((4-(piperazin-1-ylmetyl) fenyl) amino)pyrimido[4,5-d]pyridazin-5(6H)-on hydroklorid;

2-(4-metylpiperazin-1-yl)-4-(((4-(piperazin-1-ylmetyl) fenyl) amino)pyrimido[4,5-d]pyridazin-5(6H)-on hydroklorid;

6-(4-((2-(4-metoksyfenyl)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl) amino) fenyl)-6-azaspiro [2,5] oktan-1-karboksylsyre;

6-(4-((2-(3-metoksyfenyl)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)fenyl)-6-azaspiro [2,5] oktan-1-karboksylsyre;

4-((4-(piperazin-1-ylmetyl)fenyl)amino)-2-(pyrrolidin-1-yl)pyrimido[4,5-d]pyridazin-5(6H)-on hydroklorid;

2-(dimetylamino)-4-((4-(piperazin-1-ylmetyl)fenyl)amino)pyrimido[4,5-d]pyridazin-5(6H)-on hydroklorid;

2-etoksy-4-((4-(piperazin-1-ylmetyl)fenyl)amino)pyrimido[4,5-d]pyridazin-5(6H)-on hydroklorid;

1-(5-okso-4-((4-(piperazin-1-ylmetyl)fenyl)amino)-5,6-dihydropyrimido [4,5-d] pyridazin-2-yl) piperidin-4-karboksylsyre-hydroklorid;

2-(azepan-1-yl)-4-((4-(piperazin-1-ylmetyl)fenyl)amino)pyrimido[4,5-d]pyridazin-5(6H)-on hydroklorid;

6-(4-((2-(2-metoksyfenyl)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)fenyl)-6-azaspiro [2,5] oktan-1-karboksylsyre;

2-(diisopropylamino)-4-((4-(piperazin-1-ylmetyl)fenyl)amino)pyrimido[4,5-d]pyridazin-5(6H)-on hydroklorid;

2-(4-(morfolinometyl)fenyl)-4-((4-(piperazin-1-ylmetyl)fenyl)amino)pyrimido[4,5-d]pyridazin-5(6H)-on hydroklorid;

1-(5-okso-4-((4-(piperazin-1-ylmetyl)fenyl)amino)-5,6-dihydropyrimido [4,5-d] pyridazin-2-yl) piperidin-4-karbonitrilhydroklorid;

2-(4-etylperazin-1-yl)-4-((4-(piperazin-1-ylmetyl)fenyl)amino)pyrimido[4,5-d]pyridazin-5(6H)-on hydroklorid;

4-((1-(2-morfolinoetyl)-1H-pyrazol-4-yl)amino)-2-fenylpyrimido[4,5-d]pyridazin-5(6H)-on;

2-(1,4-diazepan-1-yl)-4-((4-(piperazin-1-ylmetyl) fenyl) amino)pyrimido[4,5-d]pyridazin-5(6H)-on dihydroklorid;

2-(azepan-1-yl)-4-((4-morfolinofenyl) amino)pyrimido[4,5-d]pyridazin-5(6H)-on;

2-metoksy-4-((4-(piperazin-1-ylmetyl) fenyl) amino)pyrimido[4,5-d]pyridazin-5 (6H) -on-hydroklorid;

6-(4-((2-(azepan-1-yl)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl) amino) fenyl)-6-azaspiro [2,5] oktan-1-karboksylsyre;

2-fenyl-4-((1-(2-(piperazin-1-yl)etyl)-1H-pyrazol-4-yl) amino)pyrimido[4,5-d]pyridazin-5 (6H) -on-hydroklorid;

4-((1-(2-(4-metyl piperazin-1-yl)etyl)-1H-pyrazol-4-yl) amino)-2-fenylpyrimido[4,5-d]pyridazin-5(6H)-on;

4-((1-(2-(4-etyl piperazin-1-yl)etyl)-1H-pyrazol-4-yl) amino)-2-fenylpyrimido[4,5-d]pyridazin-5(6H)-on;

6-(4-((2-(4-(cyanometyl) piperidin-1-yl)-5-okso-5,6-dihydropyrimido[4,5-d] pyridazin-4-yl) amino) fenyl)-6-azaspiro [2,5] oktan-1-karboksylsyre;

2-(azepan-1-yl)-4-((3,4,5-trimetoksyfenyl) amino)pyrimido[4,5-d]pyridazin-5(6H)-on;

2-(azepan-1-yl)-4-((4-(morfolin-4-karbonyl) fenyl) amino)pyrimido[4,5-d]pyridazin-5(6H)-on;

2-(1-(4-((2-(azepan-1-yl)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl) amino) fenyl) piperidin-4-yl)eddikeyre;

2-(1-(4-((2-(4-(cyanometyl) piperazin-1-yl)-5-okso-5,6-dihydropyrimido [4,5-d] pyridazin-4-yl) amino) fenyl) piperidin-4-yl)eddikeyre;

2-(1-(4-((2-(4-(cyanometyl) piperidin-1-yl)-5-okso-5,6-dihydropyrimido [4,5-d] pyridazin-4-yl) amino) fenyl) piperidin-4-yl)eddikeyre;

6-(4-((2-(1,4-diazepan-1-yl)-5-okso-5,6-dihydropyrimido
[4,5-d] pyridazin-4-yl) amino) fenyl) -6-azaspiro [2,5]
oktan-1-karboksylsyre-hydroklorid;

6-(4-((2-(4-(cyanometyl)piperazin-1-yl)-5-okso-5,6-
dihydropyrimido[4,5-d] pyridazin-4-yl) amino) fenyl) -6-
azaspiro [2,5] oktan-1-karboksylsyre;

6-(4-((2-(4-cyanopiperidin-1-yl)-5-okso-5,6-
dihydropyrimido[4,5-d] pyridazin-4-yl) amino) fenyl) -6-
azaspiro [2,5] oktan-1-karboksylsyre;

2-(1-(4-((2-(4-cyanopiperidin-1-yl)-5-okso-5,6-
dihydropyrimido[4,5-d] pyridazin-4-yl) amino) fenyl)
piperidin-4-yl) eddiksyre;

1-(4-((2-(4-cyanopiperidin-1-yl)-5-okso-5,6-
dihydropyrimido[4,5-d] pyridazin-4-yl) amino) benzyl)
piperidin-4-karboksylsyre;

2-(1-(4-((2-(azepan-1-yl)-5-okso-5,6-dihydropyrimido[4,5-d]
pyridazin-4-yl) amino) benzyl) piperidin-4-yl) eddiksyre;

1-(4-((2-(4-(cyanometyl)piperidin-1-yl)-5-okso-5,6-
dihydropyrimido [4,5-d] pyridazin-4-yl) amino) benzyl)
piperidin-4-karboksylsyre;

6-(4-((2-cykloheksyl-5-okso-5,6-dihydropyrimido[4,5-
d]pyridazin-4-yl) amino) fenyl) -6-azaspiro [2,5] oktan-1-
karboksylsyre;

2-(1-(4-((2-(azepan-1-yl)-5-okso-5,6-dihydropyrimido[4,5-
d]pyridazin-4-yl) amino) fenyl)piperidin-4-yl) acetonitril;

6-(4-((2-cykloheptyl-5-okso-5,6-dihydropyrimido[4,5-
d]pyridazin-4-yl) amino) fenyl) -6-azaspiro [2,5] oktan-1-
karboksylsyre;

2-(1-(4-((5-okso-2-fenyl-5,6-dihydropyrimido[4,5-
d]pyridazin-4-yl) amino) fenyl)piperidin-4-yl) acetonitril;

4-((4-((4-(2-hidroksy-2-metylpropanoyl)piperazin-1-
yl)metyl) fenyl) amino) -2-fenylpyrimido[4,5-d]pyridazin-
5(6H)-on;

2-(azepan-1-yl)-4-((4-((4-(2-hydroksy-2-metylpropanoyl)piperazin-1-yl)metyl)fenyl)amino)pyrimido[4,5-d]pyridazin-5(6H)-on;
 2-(azepan-1-yl)-4-((4-((4-metylpiperazin-1-yl)metyl)fenyl)amino)pyrimido[4,5-d]pyridazin-5(6H)-on;
 2-(4-(4-((5-okso-2-fenyl-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)fenyl)piperidin-1-yl)eddiksyre;
 2-(4-(4-((5-okso-2-fenyl-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)fenyl)cykloheksyl)eddiksyre;
 2-(1-(4-((2-(azocan-1-yl)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)fenyl)piperidin-4-yl)eddiksyre;
 2-(azepan-1-yl)-4-((4-(2-(piperazin-1-yl)etoksy)fenyl)amino)pyrimido[4,5-d]pyridazin-5(6H)-on
 hydroklorid;
 2-(1-(4-((2-cykloheptyl-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)fenyl)piperidin-4-yl)eddiksyre;
 2-(4-(4-((2-(azepan-1-yl)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)fenyl)cykloheksyl)eddiksyre;
 4-(4-((2-(azepan-1-yl)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)fenoksy)smørsyre;
 2-(azepan-1-yl)-4-((4-(2-morfolinoetoksy)fenyl)amino)pyrimido[4,5-d]pyridazin-5(6H)-on;
 4-((4-(2-morfolinoetoksy)fenyl)amino)-2-fenylpyrimido[4,5-d]pyridazin-5(6H)-on;
 2-(azepan-1-yl)-4-((4-(2-(4-metylpiperazin-1-yl)etoksy)fenyl)amino)pyrimido[4,5-d]pyridazin-5(6H)-on;
 2-(1-(2-(4-((2-(azepan-1-yl)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)fenoksy)etyl)piperidin-4-yl)eddiksyre;
 2-(1-(5-((2-(azepan-1-yl)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)pyridin-2-yl)piperidin-4-yl)acetonitril;

1-(2-(4-((2-(azepan-1-yl)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)fenoksy)etyl)piperidin-4-karboksylsyre;

2-(1-(5-((2-(azepan-1-yl)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)pyridin-2-yl)piperidin-4-yl)acetamid;

2-(1-(4-((2-(4-(2-cyanopropan-2-yl)piperidin-1-yl)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)fenyl)piperidin-4-yl)eddikeyre;

2-(1-(5-((5-okso-2-fenyl-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)pyridin-2-yl)piperidin-4-yl)acetonitril;

2-(1-(5-((5-okso-2-fenyl-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)pyridin-2-yl)piperidin-4-yl)acetamid;

2-(1-(5-((2-(4-(cyanometyl)piperidin-1-yl)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)pyridin-2-yl)piperidin-4-yl)acetonitril;

2-(azepan-1-yl)-4-((4-(piperazin-1-karbonyl)fenyl)amino)pyrimido[4,5-d]pyridazin-5(6H)-on hydroklorid;

2-(1-(4-((2-(azepan-1-yl)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)fenyl)piperidin-4-yl)acetamid;

2-(4-(2-(4-((2-(azepan-1-yl)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)fenoksy)etyl)piperazin-1-yl)eddikeyre;

2-(azepan-1-yl)-4-((4-(2-(piperazin-1-yl)etoksy)fenyl)amino)pyrimido[4,5-d]pyridazin-5(6H)-on;

2-(1-(5-((2-(azepan-1-yl)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)pyridin-2-yl)piperidin-4-yl)eddikeyre;

2-(1-(4-((2-(azepan-1-yl)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)fenyl)piperidin-4-yl)-N-(2-hydroksyetyl)acetamid;

2-(azepan-1-yl)-4-((4-((2S,5S)-5-(hydroksymetyl)-1,4-dioksan-2-yl)metoksy)fenyl)amino)pyrimido[4,5-d]pyridazin-5(6H)-on;

2-(4-(4-((2-(azepan-1-yl)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)fenyl)piperazin-1-yl)-2-metylpropannitril;

2-(4-(4-((2-(azepan-1-yl)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)fenyl)piperazin-1-yl)-2-metylpropanamid;

2-(1-(4-((2-(azepan-1-yl)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)fenyl)piperidin-4-yl)acetonitril;

2-(1-(5-((2-(4-(cyanometyl)piperidin-1-yl)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)pyridin-2-yl)piperidin-4-yl)acetonitril;

2-(azepan-1-yl)-4-((4-(2-(4-(2-hidroksy-2-metylpropanoyl)piperazin-1-yl)etoksy)fenyl)amino)pyrimido[4,5-d]pyridazin-5(6H)-on;

2-(1-(5-((2-(4-(cyanometyl)piperidin-1-yl)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)pyridin-2-yl)piperidin-4-yl)eddiksyre;

2-(1-(4-((2-(3,5-dimetylpiperidin-1-yl)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)fenyl)piperidin-4-yl)eddiksyre;

2-(1-(4-((2-(azepan-1-yl)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)fenyl)piperidin-4-yl)-N,N-bis(2-hidroksyetyl)acetamid;

2-metyl-2-(1-(4-((5-okso-2-fenyl-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)fenyl)piperidin-4-yl)propannitril;

2-(4-(2-(4-((2-(azepan-1-yl)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)fenoksy)etyl)piperazin-1-yl)-2-metylpropannitril;

2-(1-(4-((2-(2,6-dimetylmorfolino)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)fenyl)piperidin-4-yl)eddiksyre;

4-((4-((2S,5S)-5-(hydroksymetyl)-1,4-dioksan-2-yl)metoksy)fenyl)amino)-2-fenylpyrimido[4,5-d]pyridazin-5(6H)-on;

2-((1S,4S)-4-(4-((2-(azepan-1-yl)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)fenyl)cykloheksyl)eddijsyre;

(2R,5S)-5-((4-((2-(azepan-1-yl)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)fenoksy)metyl)-1,4-dioksan-2-karboksylsyre;

2-(4-(4-((2-(azepan-1-yl)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)fenyl)piperazin-1-yl)eddijsyre;

2-(1-(3-(4-((2-(azepan-1-yl)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)fenoksy)propyl)piperidin-4-yl)eddijsyre;

6-(4-((2-(cykloheksylamino)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)fenyl)spiro[2,5]oktan-1-karboksylsyre;

6-(4-((5-okso-2-(piperidin-1-yl)-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)fenyl)spiro[2,5]oktan-1-karboksylsyre;

2-((1R,4R)-4-(4-((2-(azepan-1-yl)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)fenyl)cykloheksyl)eddijsyre;

3-(1-(4-((2-(azepan-1-yl)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)fenyl)piperidin-4-yl)propansyre;

2-(1-(4-((2-(azepan-1-yl)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)fenyl)piperidin-4-yl)cyklopropankarboksylsyre;

3-(1-(4-((5-okso-2-fenyl-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)fenyl)piperidin-4-yl)propansyre;

6-(4-((2-(4-fluorfenyl)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)fenyl)-6-azaspiro[2,5]oktan-1-karboksylsyre;

6-(5-((2-(azepan-1-yl)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)pyridin-2-yl)-6-azaspiro [2,5] oktan-1-karboksylsyre;

6-(4-((2-(azepan-1-yl)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)-2-fluorfenyl)-6-azaspiro [2,5] oktan-1-karboksylsyre;

2-(azepan-1-yl)-4-((4-(3-(piperazin-1-yl)propoksy)fenyl)amino)pyrimido[4,5-d]pyridazin-5(6H)-on;

6-(5-((5-okso-2-fenyl-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)pyridin-2-yl)-6-azaspiro [2,5] oktan-1-karboksylsyre;

6-(4-((5-okso-2-(pyridin-4-yl)-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)fenyl)-6-azaspiro [2,5] oktan-1-karboksylsyre;

2-(azepan-1-yl)-4-((4-(4-(2-hydroksypropan-2-yl)piperidin-1-yl)fenyl)amino)pyrimido[4,5-d]pyridazin-5(6H)-on;

2-(4-(4-((2-(azepan-1-yl)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)fenyl)piperazin-1-yl)-2-metylpropansyre;

6-(4-((2-(azokan-1-yl)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)fenyl)-6-azaspiro [2,5] oktan-1-karboksylsyre;

2-(1-(4-((2-(azepan-1-yl)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)fenyl)piperidin-4-yl)-2-metylpropansyre;

2-metyl-2-(1-(4-((5-okso-2-fenyl-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)fenyl)piperidin-4-yl)propansyre;

2-(2,6-dimetylpiperidin-1-yl)-4-((4-(piperazin-1-yl)metyl)fenyl)amino)pyrimido[4,5-d]pyridazin-5(6H)-on;

2-(1-(4-((2-(2,6-dimetylpiperidin-1-yl)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)fenyl)piperidin-4-yl)eddiksyre;

6-(4-((2-(2,6-dimetylpiperidin-1-yl)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)fenyl)-6-azaspiro [2,5] oktan-1-karboksylsyre;

2-(1-(4-((2-(2,6-dimetylpiperidin-1-yl)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)fenyl)piperidin-4-yl)acetonitril;

2-(2,6-dimetylpiperidin-1-yl)-4-((4-(4-(2-hydroksy-2-metylpropanoyl)piperazin-1-yl)fenyl)amino)pyrimido[4,5-d]pyridazin-5(6H)-on;

2-(1-(5-((2-(2,6-dimetylpiperidin-1-yl)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)pyridin-2-yl)piperidin-4-yl)eddikeyre;

2-(3,5-dimetylpiperidin-1-yl)-4-((4-(piperazin-1-ylmetyl)fenyl)amino)pyrimido[4,5-d]pyridazin-5(6H)-on;

2-(1-(4-((2-(3,5-dimetylpiperidin-1-yl)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)fenyl)piperidin-4-yl)eddikeyre;

6-(4-((2-(3,5-dimetylpiperidin-1-yl)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)fenyl)-6-azaspiro [2,5] oktan-1-karboksylsyre;

2-(1-(4-((2-(3,5-dimetylpiperidin-1-yl)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)fenyl)piperidin-4-yl)acetonitril;

2-(3,5-dimetylpiperidin-1-yl)-4-((4-(4-(2-hydroksy-2-metylpropanoyl)piperidin-1-yl)fenyl)amino)pyrimido[4,5-d]pyridazin-5(6H)-on;

2-(1-(5-((2-(3,5-dimetylpiperidin-1-yl)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)pyridin-2-yl)piperidin-4-yl)eddikeyre;

2-(2,6-dimetylmorfolino)-4-((4-(piperazin-1-ylmetyl)fenyl)amino)pyrimido[4,5-d]pyridazin-5(6H)-on;

2-(1-(4-((2-(2,6-dimetylmorfolino)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)fenyl)piperidin-4-yl)eddikeyre;

6-(4-((2-(2,6-dimetylmorfolino)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)fenyl)-6-azaspiro [2,5] oktan-1-karboksylsyre;

2-(1-(4-((2-(2,6-dimetylmorfolino)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)fenyl)piperidin-4-yl)acetonitril;

2-(2,6-dimetylmorfolino)-4-((4-(4-(2-hydroksy-2-metylpropanoyl)piperidin-1-yl)fenyl)amino)pyrimido[4,5-d]pyridazin-5(6H)-on;

2-(1-(5-((2-(2,6-dimetylmorfolino)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)pyridin-2-yl)piperidin-4-yl)eddikeyre;

2-(diisopropylamino)-4-((4-(piperazin-1-ylmetyl)fenyl)amino)pyrimido[4,5-d]pyridazin-5(6H)-on;

2-(1-(4-((2-(diisopropylamino)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)fenyl)piperidin-4-yl)eddikeyre;

6-(4-((2-(diisopropylamino)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)fenyl)-6-azaspiro [2,5] oktan-1-karboksylsyre;

2-(1-(4-((2-(diisopropylamino)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)fenyl)piperidin-4-yl)acetonitril;

2-(diisopropylamino)-4-((4-(4-(2-hydroksy-2-metylpropanoyl)piperidin-1-yl)fenyl)amino)pyrimido[4,5-d]pyridazin-5(6H)-on;

2-(1-(5-((2-(diisopropylamino)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)pyridin-2-yl)piperidin-4-yl)eddikeyre;

2-(2-metylpiperidin-1-yl)-4-((4-(piperazin-1-ylmetyl)fenyl)amino)pyrimido[4,5-d]pyridazin-5(6H)-on;

2-(1-(4-((2-(2-metylpiperidin-1-yl)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)fenyl)piperidin-4-yl)eddikeyre;

6-(4-((2-(2-metylpiperidin-1-yl)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)fenyl)-6-azaspiro [2,5] oktan-1-karboksylsyre;

2-(1-(4-((2-(2-metylpiperidin-1-yl)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)fenyl)piperidin-4-yl)acetonitril;

4-((4-(4-(2-hydroksy-2-metylpropanoyl)piperidin-1-yl)fenyl)amino)-2-(2-metylpiperidin-1-yl)pyrimido[4,5-d]pyridazin-5(6H)-on;

2-(1-(5-((2-(2-metylpiperidin-1-yl)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)pyridin-2-yl)piperidin-4-yl)eddikeyre;

1-(4-((2-(azepan-1-yl)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)fenyl)piperidin-4-karboksylsyre;

1-(4-((2-(azepan-1-yl)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)benzyl)piperidin-4-karboksylsyre;

4-((4-((4-(2H-tetrazol-5-yl)piperidin-1-yl)metyl)fenyl)amino)-2-(azepan-1-yl)pyrimido[4,5-d]pyridazin-5(6H)-on;

4-((4-((4-((2H-tetrazol-5-yl)metyl)piperidin-1-yl)metyl)fenyl)amino)-2-(azepan-1-yl)pyrimido[4,5-d]pyridazin-5(6H)-on;

2-(1-(4-((2-cykloheptyl-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)fenyl)piperidin-4-yl)eddikeyre;

1-(4-((2-cykloheptyl-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)fenyl)piperidin-4-karboksylsyre;

6-(4-((2-(3-cyanopiperidin-1-yl)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)fenyl)-6-azaspiro [2,5] oktan-1-karboksylsyre;

2-(1-(4-((2-(3-cyanopiperidin-1-yl)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)fenyl)piperidin-4-yl)eddikeyre;

1-(4-((2-(3-cyanopiperidin-1-yl)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)fenyl)piperidin-4-karboksylsyre;

1-(4-((2-(3-cyanopiperidin-1-yl)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)benzyl)piperidin-4-karboksylsyre;

1-(4-((4-((4-(2H-tetrazol-5-yl)piperidin-1-yl)metyl)fenyl)amino)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-2-yl)piperidin-3-karbonitril;

2-(1-(4-((2-(3-cyanopiperidin-1-yl)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)benzyl)piperidin-4-yl)eddiksyre;

1-(4-((4-((4-((2H-tetrazol-5-yl)metyl)piperidin-1-yl)metyl)fenyl)amino)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-2-yl)piperidin-3-karbonitril;

1-(4-((2-cykloheptyl-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)benzyl)piperidin-4-karboksylsyre;

4-((4-((4-(2H-tetrazol-5-yl)piperidin-1-yl)metyl)fenyl)amino)-2-cykloheptylpyrimido[4,5-d]pyridazin-5(6H)-on;

2-(1-(4-((2-cykloheptyl-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)benzyl)piperidin-4-yl)eddiksyre;

4-((4-((4-((2H-tetrazol-5-yl)metyl)piperidin-1-yl)metyl)fenyl)amino)-2-cykloheptylpyrimido[4,5-d]pyridazin-5(6H)-on;

1-(4-((2-(4-cyanopiperidin-1-yl)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)fenyl)piperidin-4-karboksylsyre;

1-(4-((4-((4-(2H-tetrazol-5-yl)piperidin-1-yl)metyl)fenyl)amino)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-2-yl)piperidin-4-karbonitril;

1-(4-((4-((4-((2H-tetrazol-5-yl)metyl)piperidin-1-yl)metyl)fenyl)amino)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-2-yl)piperidin-4-karbonitril;

1-(4-((2-(4-(cyanometyl)piperidin-1-yl)-5-okso-5,6-dihydropyrimido [4,5-d] pyridazin-4-yl)amino)benzyl)piperidin-4-karboksylsyre;

2-(1-(4-((4-((4-(2H-tetrazol-5-yl)piperidin-1-yl)metyl)fenyl)amino)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-2-yl)piperidin-4-yl)acetonitril;

2-(1-(4-((4-((4-((2H-tetrazol-5-yl)metyl)piperidin-1-yl)metyl)fenyl)amino)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-2-yl)piperidin-4-yl)acetonitril;

1-(4-((2-(4-(cyanometyl)piperazin-1-yl)-5-okso-5,6-dihydropyrimido [4,5-d] pyridazin-4-yl)amino)fenyl)piperidin-4-karboksylsyre;

1-(4-((2-(4-(cyanometyl)piperazin-1-yl)-5-okso-5,6-dihydropyrimido [4,5-d] pyridazin-4-yl)amino)benzyl)piperidin-4-karboksylsyre;

2-(4-(4-((4-((4-(2H-tetrazol-5-yl)piperidin-1-yl)metyl)fenyl)amino)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-2-yl)piperazin-1-yl)acetonitril;

2-(1-(4-((2-(4-(cyanometyl)piperazin-1-yl)-5-okso-5,6-dihydropyrimido [4,5-d] pyridazin-4-yl)amino)benzyl)piperidin-4-yl)eddikeyre;

2-(4-(4-((4-((4-((2H-tetrazol-5-yl)metyl)piperidin-1-yl)metyl)fenyl)amino)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-2-yl)piperazin-1-yl)acetonitril;

6-(4-((2-(1,4-diazepan-1-yl)-5-okso-5,6-dihydropyrimido[4,5-d] pyridazin-4-yl)amino)fenyl)-6-azaspiro [2,5] oktan-1-karboksylsyre;

2-(1-(4-((2-(1,4-diazepan-1-yl)-5-okso-5,6-dihydropyrimido[4,5-d] pyridazin-4-yl)amino)fenyl)piperidin-4-yl)eddikeyre;

1-(4-((2-(1,4-diazepan-1-yl)-5-okso-5,6-dihydropyrimido[4,5-d] pyridazin-4-yl)amino)fenyl)piperidin-4-karboksylsyre;

1-(4-((2-(1,4-diazepan-1-yl)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)benzyl)piperidin-4-karboksylsyre;
 6-(4-((2-(4-(2-cyanoacetyl)piperazin-1-yl)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)fenyl)-6-azaspiro [2,5] oktan-1-karboksylsyre;
 2-(1-(4-((2-(4-(2-cyanoacetyl)piperazin-1-yl)-5-okso-5,6-dihydropyrimido [4,5-d] pyridazin-4-yl)amino)fenyl)piperidin-4-yl)eddikeyre;
 1-(4-((2-(4-(2-cyanoacetyl)piperazin-1-yl)-5-okso-5,6-dihydropyrimido [4,5-d] pyridazin-4-yl)amino)fenyl)piperidin-4-karboksylsyre;
 1-(4-((2-(4-(2-cyanoacetyl)piperazin-1-yl)-5-okso-5,6-dihydropyrimido [4,5-d] pyridazin-4-yl)amino)benzyl)piperidin-4-karboksylsyre;
 3-(4-(4-((4-((4-(2H-tetrazol-5-yl)piperidin-1-yl)metyl)fenyl)amino)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-2-yl)piperazin-1-yl)-3-oksopropannitril;
 2-(1-(4-((2-(4-(2-cyanoacetyl)piperazin-1-yl)-5-okso-5,6-dihydropyrimido [4,5-d] pyridazin-4-yl)amino)benzyl)piperidin-4-yl)eddikeyre;
 4-((4-((4-((2H-tetrazol-5-yl)metyl)piperidin-1-yl)metyl)fenyl)amino)-2-(4-(2-isocyanoacetyl)piperazin-1-yl)pyrimido[4,5-d]pyridazin-5(6H)-on;
 6-(4-((2-(1-(2-cyanoacetyl)piperidin-4-yl)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)fenyl)-6-azaspiro [2,5] oktan-1-karboksylsyre;
 2-(1-(4-((2-(1-(2-cyanoacetyl)piperidin-4-yl)-5-okso-5,6-dihydropyrimido [4,5-d] pyridazin-4-yl)amino)fenyl)piperidin-4-yl)eddikeyre;
 1-(4-((2-(1-(2-cyanoacetyl)piperidin-4-yl)-5-okso-5,6-dihydropyrimido [4,5-d] pyridazin-4-yl)amino)fenyl)piperidin-4-karboksylsyre;

1-(4-((2-(1-(2-cyanoacetyl)piperidin-4-yl)-5-okso-5,6-dihydropyrimido [4,5-d] pyridazin-4-yl)amino)benzyl)piperidin-4-karboksylsyre;

3-(4-(4-((4-((4-(2H-tetrazol-5-yl)piperidin-1-yl)metyl)fenyl)amino)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-2-yl)piperidin-1-yl)-3-oksopropannitril;

2-(1-(4-((2-(1-(2-cyanoacetyl)piperidin-4-yl)-5-okso-5,6-dihydropyrimido [4,5-d] pyridazin-4-yl)amino)benzyl)piperidin-4-yl)eddiksyre;

4-((4-((4-((2H-tetrazol-5-yl)metyl)piperidin-1-yl)metyl)fenyl)amino)-2-(1-(2-isocyanoacetyl)piperidin-4-yl)pyrimido[4,5-d]pyridazin-5(6H)-on;

2-(4-(5-((2-(azepan-1-yl)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino) pyridin-2-yl) piperazin-1-yl)eddiksyre;

2-(4-(4-((2-(azepan-1-yl)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)fenyl) -1,4-diazepan-1-yl)eddiksyre;

2-(1-(4-((4-(4-(2-hydroksypropan-2-yl)piperidin-1-yl)fenyl)amino)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-2-yl)piperidin-4-yl)acetonitril;

3-(1-(4-((2-(4-(cyanometyl)piperidin-1-yl)-5-okso-5,6-dihydropyrimido [4,5-d] pyridazin-4-yl)amino)fenyl)piperidin-4-yl)propansyre;

6-(5-((2-(4-(cyanometyl)piperidin-1-yl)-5-okso-5,6-dihydropyrimido[4,5-d] pyridazin-4-yl)amino) pyridin-2-yl)-6-azaspiro [2,5] oktan-1-karboksylsyre;

1-(5-okso-4-((4-(2-(piperazin-1-yl)etoksy)fenyl)amino)-5,6-dihydropyrimido[4,5-d]pyridazin-2-yl)piperidin-4-karbonitril;

2-(1-(5-okso-4-((4-(2-(piperazin-1-yl)etoksy)fenyl)amino)-5,6-dihydropyrimido[4,5-d]pyridazin-2-yl)piperidin-4-yl)acetonitril;

2-(azepan-1-yl)-4-((4-(2-(4-etyl)piperazin-1-yl)etoksy)fenyl)amino)pyrimido[4,5-d]pyridazin-5(6H)-on;

2-fenyl-4-((4-(2-(piperazin-1-yl)etoksy)fenyl)amino)pyrimido[4,5-d]pyridazin-5(6H)-on;

4-((4-(2-(piperazin-1-yl)etoksy)fenyl)amino)-2-(piperidin-1-yl)pyrimido[4,5-d]pyridazin-5(6H)-on;

2-(4-(4-((5-okso-2-(piperidin-1-yl)-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)fenyl)-1,4-diazepan-1-yl)eddijsyre;

6-(4-((2-(4-metylpiperidin-1-yl)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)fenyl)-6-azaspiro[2,5]oktan-1-karboksylsyre;

2-(4-metylpiperidin-1-yl)-4-((4-(2-(piperazin-1-yl)etoksy)fenyl)amino)pyrimido[4,5-d]pyridazin-5(6H)-on hydroklorid;

2-(azepan-1-yl)-4-((4-(2-(3-oksopiperazin-1-yl)etoksy)fenyl)amino)pyrimido[4,5-d]pyridazin-5(6H)-on;

6-(2-(4-((2-(azepan-1-yl)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)fenoksy)etyl)-6-azaspiro[2,5]oktan-1-karboksylsyre;

2-(azepan-1-yl)-4-((4-(2-(dietylamino)etoksy)fenyl)amino)pyrimido[4,5-d]pyridazin-5(6H)-on;

2-(cykloheksyl(metyl)amino)-4-((4-(2-(piperazin-1-yl)etoksy)fenyl)amino)pyrimido[4,5-d]pyridazin-5(6H)-on;

2-(1-(4-((2-(cykloheksyl(metyl)amino)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)fenyl)piperidin-4-yl)eddijsyre;

2-(4-(4-((2-(4-(cyanometyl)piperidin-1-yl)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)fenyl)piperazin-1-yl)eddijsyre;

2-(1-(4-((2-(3-metoksyfenyl)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)fenyl)piperidin-4-yl)acetonitril;

4-((4-(2-(1,4-diazepan-1-yl)etoksy)fenyl)amino)-2-(azepan-1-yl)pyrimido[4,5-d]pyridazin-5(6H)-on;

2-(azepan-1-yl)-4-((4-(3-oksopiperazin-1-yl)fenyl)amino)pyrimido[4,5-d]pyridazin-5(6H)-on;
 2-(3-metoksyfenyl)-4-((4-(2-(piperazin-1-yl)etoksy)fenyl)amino)pyrimido[4,5-d]pyridazin-5(6H)-on;
 2-(azepan-1-yl)-4-((4-(2-(dimetylamino)etoksy)fenyl)amino)pyrimido[4,5-d]pyridazin-5(6H)-on;
 2-(azepan-1-yl)-4-((4-(2-(piperidin-4-yl)etoksy)fenyl)amino)pyrimido[4,5-d]pyridazin-5(6H)-on;
 2-(1-(5-okso-4-((4-(2-(piperidin-4-yl)etoksy)fenyl)amino)-5,6-dihydropyrimido[4,5-d]pyridazin-2-yl)piperidin-4-yl)acetonitril;
 6-(4-((2-(cykloheksyl(metyl)amino)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)fenyl)-6-azaspiro[2,5]oktan-1-karboksylsyre;
 4-((4-(2-(1,4-diazepan-1-yl)etoksy)fenyl)amino)-2-(piperidin-1-yl)pyrimido[4,5-d]pyridazin-5(6H)-on;
 2-(azepan-1-yl)-4-((4-(2-(4-hidroksypiperidin-1-yl)etoksy)fenyl)amino)pyrimido[4,5-d]pyridazin-5(6H)-on;
 2-(azepan-1-yl)-4-((4-(3-(piperazin-1-yl)propyl)fenyl)amino)pyrimido[4,5-d]pyridazin-5(6H)-on;
 2-(1-(5-okso-4-((4-(3-(piperazin-1-yl)propyl)fenyl)amino)-5,6-dihydropyrimido[4,5-d]pyridazin-2-yl)piperidin-4-yl)acetonitril;
 2-(azepan-1-yl)-4-((4-(4-etyl-3-oksopiperazin-1-yl)fenyl)amino)pyrimido[4,5-d]pyridazin-5(6H)-on;
 2-morfolino-4-((4-(2-(piperazin-1-yl)etoksy)fenyl)amino)pyrimido[4,5-d]pyridazin-5(6H)-on;
 2-(2,6-dimetylmorfolino)-4-((4-(2-(piperazin-1-yl)etoksy)fenyl)amino)pyrimido[4,5-d]pyridazin-5(6H)-on;
 2-(1-(4-((4-(4-etyl-3-oksopiperazin-1-yl)fenyl)amino)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-2-yl)piperidin-4-yl)acetonitril;

2-(azepan-1-yl)-4-((4-(3-(4-hydroksypiperidin-1-yl)propyl)fenyl)amino)pyrimido[4,5-d]pyridazin-5(6H)-on;
 2-(azepan-1-yl)-4-((4-(4-etylpiperazin-1-yl)fenyl)amino)pyrimido[4,5-d]pyridazin-5(6H)-on;
 4-((6-(2-(piperazin-1-yl)etoksy)pyridin-3-yl)amino)-2-(piperidin-1-yl)pyrimido[4,5-d]pyridazin-5(6H)-on;
 2-(azepan-1-yl)-4-((6-(2-(piperazin-1-yl)etoksy)pyridin-3-yl)amino)pyrimido[4,5-d]pyridazin-5(6H)-on;
 4-((4-(2-(4-hydroksypiperidin-1-yl)etoksy)fenyl)amino)-2-(piperidin-1-yl)pyrimido[4,5-d]pyridazin-5(6H)-on;
 2-(azepan-1-yl)-4-((4-(2-(4-hydroksy-4-metylpiperidin-1-yl)etoksy)fenyl)amino)pyrimido[4,5-d]pyridazin-5(6H)-on;
 2-(1-(4-((4-(2-(4-hydroksy-4-metylpiperidin-1-yl)etoksy)fenyl)amino)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-2-yl)piperidin-4-yl)acetonitril;
 2-(azepan-1-yl)-4-((4-(4-hydroksypiperidin-1-yl)fenyl)amino)pyrimido[4,5-d]pyridazin-5(6H)-on;
 2-(1-(4-((4-(4-etylpiperazin-1-yl)fenyl)amino)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-2-yl)piperidin-4-yl)acetonitril;
 2-(azepan-1-yl)-4-((4-(2-(diisopropylamino)etoksy)fenyl)amino)pyrimido[4,5-d]pyridazin-5(6H)-on;
 2-(1-(4-((4-(4-hydroksypiperidin-1-yl)fenyl)amino)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-2-yl)piperidin-4-yl)acetonitril;
 2-(azepan-1-yl)-4-((4-(4-(2-hydroksyetyl)piperazin-1-yl)fenyl)amino)pyrimido[4,5-d]pyridazin-5(6H)-on;
 2-(1-(4-((4-(4-(2-hydroksyetyl)piperazin-1-yl)fenyl)amino)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-2-yl)piperidin-4-yl)acetonitril;
 2-(azepan-1-yl)-4-((4-(piperazin-1-yl)fenyl)amino)pyrimido[4,5-d]pyridazin-5(6H)-on;

2-(1-(5-okso-4-((4-(piperazin-1-yl)fenyl)amino)-5,6-dihydropyrimido[4,5-d]pyridazin-2-yl)piperidin-4-yl)acetonitril;

2-(azepan-1-yl)-4-((4-(4-(3-hidroksypropyl)piperidin-1-yl)fenyl)amino)pyrimido[4,5-d]pyridazin-5(6H)-on;

2-(azepan-1-yl)-4-((4-(4-(2-hidroksyetyl)piperidin-1-yl)fenyl)amino)pyrimido[4,5-d]pyridazin-5(6H)-on;

2-(1-(4-((4-(4-(2-hidroksyetyl)piperidin-1-yl)fenyl)amino)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-2-yl)piperidin-4-yl)acetonitril;

2-(1-(4-((4-(2-(4-ethylpiperazin-1-yl)etyl)fenyl)amino)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-2-yl)piperidin-4-yl)acetonitril;

2-(azepan-1-yl)-4-((4-(2-(piperazin-1-yl)etyl)fenyl)amino)pyrimido[4,5-d]pyridazin-5(6H)-on;

4-((4-(2-aminoetoksy)fenyl)amino)-2-(azepan-1-yl)pyrimido[4,5-d]pyridazin-5(6H)-on;

2-(1-(4-((4-(2-aminoetoksy)fenyl)amino)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-2-yl)piperidin-4-yl)acetonitril;

2-(azepan-1-yl)-4-((4-(2-(4-hidroksypiperidin-1-yl)etyl)fenyl)amino)pyrimido[4,5-d]pyridazin-5(6H)-on;

2-(azepan-1-yl)-4-((4-(4-(hidroksymetyl)piperidin-1-yl)fenyl)amino)pyrimido[4,5-d]pyridazin-5(6H)-on;

2-(azepan-1-yl)-4-((4-(2-(4-(hidroksymetyl)piperidin-1-yl)etoksy)fenyl)amino)pyrimido[4,5-d]pyridazin-5(6H)-on;

2-(1-(4-((4-(4-(3-hidroksypropyl)piperidin-1-yl)fenyl)amino)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-2-yl)piperidin-4-yl)acetonitril;

2-(4-(4-((2-(azepan-1-yl)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)fenyl)piperazin-1-yl)acetonitril;

2-(1-(4-((4-(4-(cyanometyl)piperazin-1-yl)fenyl)amino)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-2-yl)piperidin-4-yl)acetonitril;

3-(4-(4-((2-(azepan-1-yl)-5-okso-5,6-dihydropyrimido[4,5-d]
 pyridazin-4-yl)amino)fenyl) piperazin-1-yl)propansyre;
 2-(azepan-1-yl)-4-((4-(2-(4-etylpiperazin-1-
 yl)etyl)fenyl)amino)pyrimido[4,5-d]pyridazin-5(6H)-on;
 2-(azepan-1-yl)-4-((4-(2-(4-hydroksy-4-metylpiperidin-1-
 yl)etyl)fenyl)amino)pyrimido[4,5-d]pyridazin-5(6H)-on;
 2-(azepan-1-yl)-4-((4-(2-(4-(2-hydroksyetyl)piperazin-1-
 yl)etyl)fenyl)amino)pyrimido[4,5-d]pyridazin-5(6H)-on;
 2-(1-(4-((4-(2-(4-(2-hydroksyetyl)piperazin-1-
 yl)etyl)fenyl)amino)-5-okso-5,6-dihydropyrimido[4,5-
 d]pyridazin-2-yl)piperidin-4-yl)acetonitril;
 2-(4-(4-((2-(4-(cyanometyl)piperidin-1-yl)-5-okso-5,6-
 dihydropyrimido [4,5-d] pyridazin-4-yl)amino)fenyl)
 piperazin-1-yl)-2-metylpropansyre;
 2-(azepan-1-yl)-4-((4-(4-(2-hydroksy-2-
 metylpropanoyl)piperazin-1-yl)fenyl)amino)pyrimido[4,5-
 d]pyridazin-5(6H)-on;
 3-(4-(4-((2-(azepan-1-yl)-5-okso-5,6-dihydropyrimido[4,5-
 d]pyridazin-4-yl)amino)fenyl)piperazin-1-yl)-3-
 oksopropannitril;
 2-(1-(4-((4-(4-(hydroksymetyl)piperidin-1-yl)fenyl)amino)-
 5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-2-yl)piperidin-
 4-yl)acetonitril;
 2-(azepan-1-yl)-4-((6-(4-hydroksypiperidin-1-yl)pyridin-3-
 yl)amino)pyrimido[4,5-d]pyridazin-5(6H)-on;
 2-(1-(4-((4-(2-(4-(hydroksymetyl)piperidin-1-
 yl)etoksy)fenyl)amino)-5-okso-5,6-dihydropyrimido[4,5-
 d]pyridazin-2-yl)piperidin-4-yl)acetonitril;
 (fosfonooksy)metyl-6-(4-((2-(azepan-1-yl)-5-okso-5,6-
 dihydropyrimido[4,5-d]pyridazin-4-yl)amino)fenyl)-6-
 azaspiro[2,5]oktan-1-karboksylat;
 3-(4-(4-((2-(4-(cyanometyl)piperidin-1-yl)-5-okso-5,6-
 dihydropyrimido [4,5-d] pyridazin-4-yl)amino)fenyl)
 piperazin-1-yl)propansyre;

2-(azepan-1-yl)-4-((6-(piperazin-1-yl)pyridin-3-yl)amino)pyrimido[4,5-d]pyridazin-5(6H)-on;
 2-(azepan-1-yl)-4-((4-(2-(2-hydroksyetyl)-2H-tetrazol-5-yl)fenyl)amino)pyrimido[4,5-d]pyridazin-5(6H)-on;
 2-(1-(4-((4-(4-(2-hydroksy-2-metylpropanoyl)piperazin-1-yl)fenyl)amino)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-2-yl)piperidin-4-yl)acetonitril;
 2-(1-(4-((4-(2-(dietylamo)etoksy)fenyl)amino)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-2-yl)piperidin-4-yl)acetonitril;
 2-(azepan-1-yl)-4-((4-(2-etyl-2H-tetrazol-5-yl)fenyl)amino)pyrimido[4,5-d]pyridazin-5(6H)-on;
 2-(1-(4-((4-(2-etyl-2H-tetrazol-5-yl)fenyl)amino)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-2-yl)piperidin-4-yl)acetonitril;
 4-((4-(2H-tetrazol-5-yl)fenyl)amino)-2-(azepan-1-yl)pyrimido[4,5-d]pyridazin-5(6H)-on;
 2-(1-(4-((6-(4-ethylpiperazin-1-yl)pyridin-3-yl)amino)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-2-yl)piperidin-4-yl)acetonitril;
 2-(azepan-1-yl)-4-((6-(4-ethylpiperazin-1-yl)pyridin-3-yl)amino)pyrimido[4,5-d]pyridazin-5(6H)-on;
 2-(4-(5-okso-4-((4-(2-(piperazin-1-yl)etoksy)fenyl)amino)-5,6-dihydropyrimido[4,5-d]pyridazin-2-yl)piperazin-1-yl)acetonitril;
 2-(1-(5-okso-4-((6-(piperazin-1-yl)pyridin-3-yl)amino)-5,6-dihydropyrimido[4,5-d]pyridazin-2-yl)piperidin-4-yl)acetonitril;
 2-(1-(4-((2-(azepan-1-yl)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)fenyl)piperidin-3-yl)eddiksyre;
 2-(1-(4-((2-(azepan-1-yl)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)fenyl)piperidin-3-yl)eddiksyre;

3-(4-(5-((2-(azepan-1-yl)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)pyridin-2-yl)piperazin-1-yl)-3-oksopropannitril;

2-(5-(4-((2-(azepan-1-yl)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)fenyl)-2H-tetrazol-2-yl)eddiksyre;

2-(azepan-1-yl)-4-((6-(4-(2-hydroksyetyl)piperidin-1-yl)pyridin-3-yl)amino)pyrimido[4,5-d]pyridazin-5(6H)-on;

3-(4-(5-((2-(4-(cyanometyl)piperidin-1-yl)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)pyridin-2-yl)piperazin-1-yl)-3-oksopropannitril;

2-(azepan-1-yl)-4-((6-(4-(2-hydroksy-2-metylpropanoyl)piperazin-1-yl)pyridin-3-yl)amino)pyrimido[4,5-d]pyridazin-5(6H)-on;

2-(azepan-1-yl)-4-((4-(2-(4-(2-hydroksyetyl)piperazin-1-yl)etoksy)fenyl)amino)pyrimido[4,5-d]pyridazin-5(6H)-on;

3-(4-(4-((2-(4-(cyanometyl)piperidin-1-yl)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)fenyl)piperazin-1-yl)-3-oksopropannitril;

2-(5-(4-((2-(4-(cyanometyl)piperidin-1-yl)-5-okso-5,6-dihydropyrimido [4,5-d] pyridazin-4-yl)amino)fenyl)-2H-tetrazol-2-yl)eddiksyre;

2-(azepan-1-yl)-4-((6-(4-metylpiperazin-1-yl)pyridin-3-yl)amino)pyrimido[4,5-d]pyridazin-5(6H)-on;

2-(1-(4-((6-(4-metylpiperazin-1-yl)pyridin-3-yl)amino)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-2-yl)piperidin-4-yl)acetonitril;

4-((4-(4-((2H-tetrazol-5-yl)metyl)piperidin-1-yl)fenyl)amino)-2-(azepan-1-yl)pyrimido[4,5-d]pyridazin-5(6H)-on;

2-(1-(4-((4-(2H-tetrazol-5-yl)fenyl)amino)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-2-yl)piperidin-4-yl)acetonitril;

2-(1-(4-((4-(4-((2H-tetrazol-5-yl)methyl)piperidin-1-yl)fenyl)amino)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-2-yl)piperidin-4-yl)acetonitril;

2-(azepan-1-yl)-4-((4-(4-methylpiperazin-1-yl)fenyl)amino)pyrimido[4,5-d]pyridazin-5(6H)-on;

2-(1-(4-((4-(4-methylpiperazin-1-yl)fenyl)amino)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-2-yl)piperidin-4-yl)acetonitril;

2-(1-(5-((2-(4-(cyanomethyl)piperidin-1-yl)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)pyridin-2-yl)piperidin-3-yl)eddijsyre;

2-(1-(4-((2-(4-(cyanomethyl)piperidin-1-yl)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)fenyl)piperidin-3-yl)eddijsyre;

2-(1-(4-((6-(4-(2-hidroksy-2-metilpropanoyl)piperazin-1-yl)pyridin-3-yl)amino)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-2-yl)piperidin-4-yl)acetonitril;

4-((6-(4-((2H-tetrazol-5-yl)methyl)piperidin-1-yl)pyridin-3-yl)amino)-2-(azepan-1-yl)pyrimido[4,5-d]pyridazin-5(6H)-on;

2-(1-(4-((6-(4-((2H-tetrazol-5-yl)methyl)piperidin-1-yl)pyridin-3-yl)amino)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-2-yl)piperidin-4-yl)acetonitril;

2-(4-(4-((2-(azepan-1-yl)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)fenoksi)piperidin-1-yl)eddijsyre;

2-(azepan-1-yl)-4-((4-(4-(2-metoksietyl)piperazin-1-yl)fenyl)amino)pyrimido[4,5-d]pyridazin-5(6H)-on;

2-(1-(4-((4-(4-(2-metoksietyl)piperazin-1-yl)fenyl)amino)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-2-yl)piperidin-4-yl)acetonitril;

2-(1-(4-((4-(4-(2-aminoetyl)piperazin-1-yl)fenyl)amino)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-2-yl)piperidin-4-yl)acetonitril;

2-(azepan-1-yl)-4-((4-(1-(hydroksymetyl)-6-azaspiro[2,5]oktan-6-yl)fenyl)amino)pyrimido[4,5-d]pyridazin-5(6H)-on;

2-(1-(4-((4-(1-(hydroksymetyl)-6-azaspiro[2,5]oktan-6-yl)fenyl)amino)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-2-yl)piperidin-4-yl)acetonitril;

2-(azepan-1-yl)-4-((4-(4-(3-hydroksypropyl)piperazin-1-yl)fenyl)amino)pyrimido[4,5-d]pyridazin-5(6H)-on;

2-(1-(4-((4-(4-(3-hydroksypropyl)piperazin-1-yl)fenyl)amino)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-2-yl)piperidin-4-yl)acetonitril;

2-(4-(4-((2-(4-(cyanometyl)piperidin-1-yl)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl)amino)fenoksy)piperidin-1-yl)eddiksyre;

2-(azepan-1-yl)-4-((4-(4-(2-hidroksyetyl)-1,4-diazepan-1-yl)fenyl)amino)pyrimido[4,5-d]pyridazin-5(6H)-on;

2-(1-(4-((4-(4-(2-hidroksyetyl)-1,4-diazepan-1-yl)fenyl)amino)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-2-yl)piperidin-4-yl)acetonitril;

2-(azepan-1-yl)-4-((4-(4-(1-hidroksy-2-metylpropan-2-yl)piperazin-1-yl)fenyl)amino)pyrimido[4,5-d]pyridazin-5(6H)-on;

2-(1-(4-((4-(4-(1-hidroksy-2-metylpropan-2-yl)piperazin-1-yl)fenyl)amino)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-2-yl)piperidin-4-yl)acetonitril;

2-(azepan-1-yl)-4-((4-(4-(2-(dimetylamino)etyl)piperazin-1-yl)fenyl)amino)pyrimido[4,5-d]pyridazin-5(6H)-on;

2-(1-(4-((4-(4-(2-(dimetylamino)etyl)piperazin-1-yl)fenyl)amino)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-2-yl)piperidin-4-yl)acetonitril;

2-(azepan-1-yl)-4-((4-(2-(4-etylpiperazin-1-yl)-2-oksoetoksy)fenyl)amino)pyrimido[4,5-d]pyridazin-5(6H)-on;

2-(1-(4-((4-(2-(4-ethylpiperazin-1-yl)-2-oksoetoksy) fenyl) amino)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-2-yl)piperidin-4-yl)acetonitril;

2-(1-(4-((4-(2-(4-methylpiperazin-1-yl)-2-oksoetoksy) fenyl) amino)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-2-yl)piperidin-4-yl)acetonitril;

2-(azepan-1-yl)-4-((4-(3-(2-hidroksyetyl)piperidin-1-yl) fenyl) amino)pyrimido[4,5-d]pyridazin-5(6H)-on;

2-(azepan-1-yl)-4-((4-(4-(2,3-dihidroksypropyl)piperazin-1-yl) fenyl) amino)pyrimido[4,5-d]pyridazin-5(6H)-on;

2-(1-(4-((4-(4-(2,3-dihidroksypropyl)piperazin-1-yl) fenyl) amino)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-2-yl)piperidin-4-yl)acetonitril;

2-(azepan-1-yl)-4-((4-(4-(2-fluoretyl)piperazin-1-yl) fenyl) amino)pyrimido[4,5-d]pyridazin-5(6H)-on;

2-(1-(4-((4-(4-(2-fluoretyl)piperazin-1-yl) fenyl) amino)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-2-yl)piperidin-4-yl)acetonitril;

2-(azepan-1-yl)-4-((6-(3-hidroksypiperidin-1-yl)pyridin-3-yl) amino)pyrimido[4,5-d]pyridazin-5(6H)-on;

2-(1-(4-((6-(3-hidroksypiperidin-1-yl)pyridin-3-yl) amino)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-2-yl)piperidin-4-yl)acetonitril;

2-(azepan-1-yl)-4-((4-(4,4-difluorpiperidin-1-yl) fenyl) amino)pyrimido[4,5-d]pyridazin-5(6H)-on;

2-(1-(4-((4-(4,4-difluorpiperidin-1-yl) fenyl) amino)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-2-yl)piperidin-4-yl)acetonitril;

2-(azepan-1-yl)-4-((4-(3-hidroksypiperidin-1-yl) fenyl) amino)pyrimido[4,5-d]pyridazin-5(6H)-on;

2-(1-(4-((4-(3-hidroksypiperidin-1-yl) fenyl) amino)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-2-yl)piperidin-4-yl)acetonitril;

2-(azepan-1-yl)-4-((4-(2-(4-methylpiperazin-1-yl)-2-oksoetoksy)fenyl)amino)pyrimido[4,5-d]pyridazin-5(6H)-on;

2-(1-(4-((4-(3-(hydroksymetyl)piperidin-1-yl)fenyl)amino)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-2-yl)piperidin-4-yl)acetonitril;

2-(azepan-1-yl)-4-((4-(3-(hydroksymetyl)piperidin-1-yl)fenyl)amino)pyrimido[4,5-d]pyridazin-5(6H)-on;

2-(1-(4-((4-(3-(2-hydroksyetyl)piperidin-1-yl)fenyl)amino)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-2-yl)piperidin-4-yl)acetonitril;

2-(1-(4-((4-(4-metoksypiperidin-1-yl)fenyl)amino)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-2-yl)piperidin-4-yl)acetonitril;

2-(azepan-1-yl)-4-((4-(4-metoksypiperidin-1-yl)fenyl)amino)pyrimido[4,5-d]pyridazin-5(6H)-on;

2-(azepan-1-yl)-4-((4-(4-fluorpiperidin-1-yl)fenyl)amino)pyrimido[4,5-d]pyridazin-5(6H)-on;

2-(1-(4-((4-(4-fluorpiperidin-1-yl)fenyl)amino)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-2-yl)piperidin-4-yl)acetonitril;

2-(1-(4-((4-((1-(2-hydroksyetyl)piperidin-4-yl)oksy)fenyl)amino)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-2-yl)piperidin-4-yl)acetonitril;

2-(azepan-1-yl)-4-((4-(piperidin-4-yloksy)fenyl)amino)pyrimido[4,5-d]pyridazin-5(6H)-on
hydroklorid;

2-(1-(4-((4-(2-hydroksyetoksy)fenyl)amino)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-2-yl)piperidin-4-yl)acetonitril;

2-(azepan-1-yl)-4-((4-(2-hydroksyetoksy)fenyl)amino)pyrimido[4,5-d]pyridazin-5(6H)-on;

2-(1-(4-((4-(3-hydroksypropoksy) fenyl) amino)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-2-yl)piperidin-4-yl)acetonitril;

2-(azepan-1-yl)-4-((4-(3-hydroksypropoksy) fenyl) amino)pyrimido[4,5-d]pyridazin-5(6H)-on;

2-(1-(4-((4-(4-(1-hydroksy-2-metylpropan-2-yl)-1,4-diazepan-1-yl) fenyl) amino)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-2-yl)piperidin-4-yl)acetonitril;

2-(azepan-1-yl)-4-((4-(4-(2-fluoretyl)piperidin-1-yl) fenyl) amino)pyrimido[4,5-d]pyridazin-5(6H)-on;

2-(1-(4-((4-(4-(2-fluoretyl)piperidin-1-yl) fenyl) amino)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-2-yl)piperidin-4-yl)acetonitril;

2-(1-(4-((3,5-dimetoksyfenyl) amino)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-2-yl)piperidin-4-yl)acetonitril;

2-(1-(5-okso-4-((4-(trifluormetoksy) fenyl) amino)-5,6-dihydropyrimido[4,5-d]pyridazin-2-yl)piperidin-4-yl)acetonitril;

2-(azepan-1-yl)-4-((3,5-dimetoksyfenyl) amino)pyrimido[4,5-d]pyridazin-5(6H)-on;

2-(azepan-1-yl)-4-((4-(trifluormetoksy) fenyl) amino)pyrimido[4,5-d]pyridazin-5(6H)-on;

3-(4-((2-(azepan-1-yl)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl) amino) fenyl)propansyre;

3-(4-((2-(4-(cyanometyl)piperidin-1-yl)-5-okso-5,6-dihydropyrimido [4,5-d] pyridazin-4-yl) amino) fenyl)propansyre;

2-(azepan-1-yl)-4-((4-(bis(2-hydroksyetyl) amino) fenyl) amino)pyrimido[4,5-d]pyridazin-5(6H)-on;

2-(1-(4-((4-(bis(2-hydroksyetyl) amino) fenyl) amino)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-2-yl)piperidin-4-yl)acetonitril;

2-(azepan-1-yl)-4-((4-(3-hydroksypropyl) fenyl) amino)pyrimido[4,5-d]pyridazin-5(6H)-on;

2-(1-(4-((4-(3-hydroksypropyl) fenyl) amino)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-2-yl)piperidin-4-yl)acetonitril;

2-(azepan-1-yl)-4-((3-(hydroksymetyl) fenyl) amino)pyrimido[4,5-d]pyridazin-5(6H)-on;

2-(1-(4-((3-(hydroksymetyl) fenyl) amino)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-2-yl)piperidin-4-yl)acetonitril;

2-(1-(4-((4-fluorfenyl) amino)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-2-yl)piperidin-4-yl)acetonitril;

2-(azepan-1-yl)-4-((4-fluorfenyl) amino)pyrimido[4,5-d]pyridazin-5(6H)-on;

2-(azepan-1-yl)-4-((4-((1-hydroksy-2-metylpropan-2-yl)oksy) fenyl) amino)pyrimido[4,5-d]pyridazin-5(6H)-on;

2-(1-(4-((4-((1-hydroksy-2-metylpropan-2-yl)oksy) fenyl) amino)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-2-yl)piperidin-4-yl)acetonitril;

2-(4-((2-(azepan-1-yl)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-4-yl) amino) fenoksy) -2-metylpropansyre;

2-(4-((2-(4-(cyanometyl)piperidin-1-yl)-5-okso-5,6-dihydropyrimido [4,5-d] pyridazin-4-yl) amino) fenoksy) -2-metylpropansyre;

2-(azepan-1-yl)-4-((3,4-dimetoksyfenyl) amino)pyrimido[4,5-d]pyridazin-5(6H)-on;

2-(1-(4-((3,4-dimetoksyfenyl) amino)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-2-yl)piperidin-4-yl)acetonitril;

2-(azepan-1-yl)-4-((3-metoksyfenyl) amino)pyrimido[4,5-d]pyridazin-5(6H)-on;

2-(1-(4-((3-metoksyfenyl) amino)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-2-yl)piperidin-4-yl)acetonitril;

2-(azepan-1-yl)-4-((4-(2-hydroksyetyl) fenyl) amino)pyrimido[4,5-d]pyridazin-5(6H)-on;

2-(1-(4-((4-(2-hydroksyetyl) fenyl) amino)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-2-yl)piperidin-4-yl)acetonitril;

2-(azepan-1-yl)-4-((4-(2-metoksyetoksy) fenyl) amino)pyrimido[4,5-d]pyridazin-5(6H)-on;

2-(1-(4-((4-(2-metoksyetoksy) fenyl) amino)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-2-yl)piperidin-4-yl)acetonitril;

2-(1-(5-okso-4-((3,4,5-trimetoksyfenyl) amino)-5,6-dihydropyrimido[4,5-d]pyridazin-2-yl)piperidin-4-yl)acetonitril;

2-(azepan-1-yl)-4-(benzo[d][1,3]dioksol-5-ylamino)pyrimido[4,5-d]pyridazin-5(6H)-on;

2-(1-(4-(benzo[d][1,3]dioksol-5-ylamino)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-2-yl)piperidin-4-yl)acetonitril;

2-(azepan-1-yl)-4-((4-((1-(2-hydroksyetyl)piperidin-4-yl)oksy) fenyl) amino)pyrimido[4,5-d]pyridazin-5(6H)-on;

natrium (2-(4-(cyanometyl)piperidin-1-yl)-4-((4-(4-hydroksypiperidin-1-yl) fenyl) amino)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-6(5H)-yl) metylfosfat;

2-(azepan-1-yl)-4-((4-(hydroksymetyl)fenyl)amino)pyrimido[4,5-d]pyridazin-5(6H)-on;

2-(1-(4-((4-(hydroksymetyl)fenyl)amino)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-2-yl)piperidin-4-yl)acetonitril;

2-(1-(4-((4-(metylsulfonyl)fenyl)amino)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-2-yl)piperidin-4-yl)acetonitril;

2-(azepan-1-yl)-4-((4-(metylsulfonyl)fenyl)amino)pyrimido[4,5-d]pyridazin-5(6H)-on;

2-(1-(4-((1H-benzo[d][1,2,3]triazol-5-yl)amino)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-2-yl)piperidin-4-yl)acetonitril;

2-(1-(5-okso-4-((2-okso-2,3-dihydro-1H-benzo[d]imidazol-5-yl)amino)-5,6-dihydropyrimido[4,5-d]pyridazin-2-yl)piperidin-4-yl)acetonitril;

2-(1-(4-((4-(3-fluorpropyl)fenyl)amino)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-2-yl)piperidin-4-yl)acetonitril;

2-(1-(4-((4-(difluormetoksy)fenyl)amino)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-2-yl)piperidin-4-yl)acetonitril; eller

4-((1H-benzo[d][1,2,3]triazol-5-yl)amino)-2-(azepan-1-yl)pyrimido[4,5-d]pyridazin-5(6H)-on.

24. Forbindelse for anvendelse ifølge krav 1, hvor forbindelsen er 2-(1-(4-((4-(4-hydroksypiperidin-1-yl)fenyl)amino)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-2-yl)piperidin-4-yl)acetonitril, eller et farmasøytisk akseptabelt salt derav.

25. Forbindelse for bruk ifølge krav 1, hvor forbindelsen er 2-(1-(4-((4-(4-(2-hydroksyetyl)piperazin-1-yl)fenyl)amino)-5-okso-5,6-dihydropyrimido[4,5-d]pyridazin-2-

- yl)piperidin-4-yl)acetonitril, eller et farmasøytisk akseptabelt salt derav.
26. Forbindelse for bruk ifølge krav 1, hvor behandlingen omfatter administrering av en farmasøytisk sammensetning som omfatter forbindelsen og en farmasøytisk akseptabel bærer.
27. Forbindelse for bruk i henhold til krav 1, hvor nevnte behandling er ved inhibering av JAK-2- og SYK-banene.
28. Sammensetning for bruk i behandling av kreft, autoimmun sykdom, inflammatorisk sykdom, bensykdommer, metabolske sykdommer, nevrologiske og nevrodegenerative sykdommer, kardiovaskulære sykdommer, allergier, astma, Alzheimers sykdom, hormonrelaterte sykdommer, revmatoid artritt og faste og hematologiske maligniteter, hvor nevnte behandling omfatter administrering til en pasient av en terapeutisk effektiv mengde av en forbindelse med formel (I) for bruk i henhold til noen av kravene 1 til 27, eller et farmasøytisk akseptabelt salt eller ester derav.
29. Sammensetningen i krav 28, hvor den autoimmune sykdommen er en eller flere av transplantasjonsavvisning, revmatoid artritt, amyotrofisk lateralsklerose, multippel sklerose og vaskulitt.
30. Et sett som omfatter en eller flere doseringsformer for bruk i behandling av kreft, autoimmun sykdom, inflammatorisk sykdom, bensykdommer, metabolske sykdommer, nevrologiske og nevrodegenerative sykdommer, kardiovaskulære sykdommer, allergier, astma, Alzheimers sykdom, hormonrelaterte sykdommer, revmatoid artritt og faste og hematologiske maligniteter, og instruksjoner for administrering av doseringsformene til et individ, hvor doseringsformene omfatter en forbindelse med formel (I) for bruk i henhold til noen av kravene 1 til 27, eller et farmasøytisk akseptabelt salt eller ester derav.

31. Sett i krav 30, hvor den autoimmune sykdommen er en eller flere av transplantasjonsavvisning, revmatoid artritt, amyotrofisk lateralsklerose, multippel sklerose og vaskulitt.
32. En doseringsform for bruk i behandling av kreft, autoimmun sykdom, inflammatorisk sykdom, bensykdommer, metabolske sykdommer, nevrologiske og nevrodegenerative sykdommer, kardiovaskulære sykdommer, allergier, astma, Alzheimers sykdom, hormonrelaterte sykdommer, revmatoid artritt og faste og hematologiske maligniteter, omfattende en forbindelse med formel (I) for bruk i henhold til noen av kravene 1 til 27, eller et farmasøytisk akseptabelt salt eller ester derav.
33. Doseringsformen i krav 32, hvor den autoimmune sykdommen er en eller flere av transplantasjonsavvisning, revmatoid artritt, amyotrofisk lateralsklerose, multippel sklerose og vaskulitt.