



(12) Translation of
European patent specification

(11) NO/EP 2718270 B1

NORWAY

(19) NO

(51) Int Cl.

<i>C07D 239/47 (2006.01)</i>	<i>A61P 35/02 (2006.01)</i>	<i>C07D 401/14 (2006.01)</i>
<i>A61K 31/4418 (2006.01)</i>	<i>C07D 213/68 (2006.01)</i>	<i>C07D 403/04 (2006.01)</i>
<i>A61K 31/505 (2006.01)</i>	<i>C07D 213/73 (2006.01)</i>	<i>C07D 403/12 (2006.01)</i>
<i>A61K 31/506 (2006.01)</i>	<i>C07D 213/74 (2006.01)</i>	<i>C07D 403/14 (2006.01)</i>
<i>A61K 31/513 (2006.01)</i>	<i>C07D 239/48 (2006.01)</i>	<i>C07D 413/12 (2006.01)</i>
<i>A61K 31/5377 (2006.01)</i>	<i>C07D 401/04 (2006.01)</i>	<i>C07D 413/14 (2006.01)</i>
<i>A61P 35/00 (2006.01)</i>	<i>C07D 401/12 (2006.01)</i>	<i>C07D 495/04 (2006.01)</i>

Norwegian Industrial Property Office

(45)	Translation Published	2022.07.04
(80)	Date of The European Patent Office Publication of the Granted Patent	2022.04.27
(86)	European Application Nr.	12728011.3
(86)	European Filing Date	2012.06.10
(87)	The European Application's Publication Date	2014.04.16
(30)	Priority	2011.06.10, US, 201161495773 P
(84)	Designated Contracting States:	AL; AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HR; HU; IE; IS; IT; LI; LT; LU; LV; MC; MK; MT; NL; NO; PL; PT; RO; RS; SE; SI; SK; SM; TR
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(54)	Title	COMPOSITIONS AND METHODS FOR THE PRODUCTION OF PYRIMIDINE AND PYRIDINE COMPOUNDS WITH BTK INHIBITORY ACTIVITY
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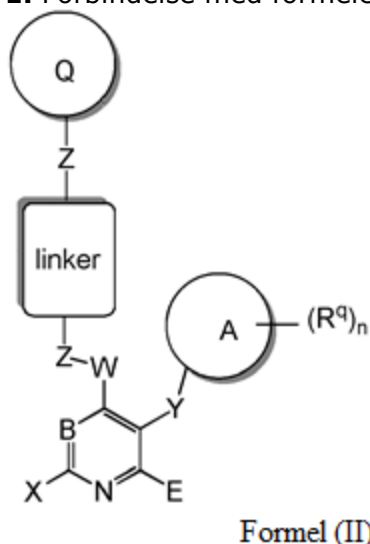
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Enclosed is a translation of the patent claims in Norwegian. Please note that as per the Norwegian Patents Acts, section 66i the patent will receive protection in Norway only as far as there is agreement between the translation and the language of 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/>

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Patentkrav**1. Forbindelse med formelen II**

5 eller farmasøytisk anvendelig salt, tautomer eller stereoisomer derav, inkludert
blandinger derav i alle forhold,

hvor:

X er H eller CH₃ eller NH₂,

Y er fraværende,

10 B er N eller CH,

E er NH₂ eller H,

W er NR eller O,

Z uavhengig er CH₂, CH₂-CH₂, NH eller er fraværende,

15 "linker" er en gruppe valgt fra en arylring, heteroarylring, en 4-7-leddet mettet
eller delvis umettet heterosyklus med 1-3 heteroatomer uavhengig valgt fra
nitrogen eller oksygen, eller en 7-10-leddet bisyklisk mettet eller delvis umettet
heterosyklisk ring med 1-5 heteroatomer uavhengig valgt fra nitrogen eller
oksygen, eller en 7-10-leddet bisyklisk mettet eller delvis umettet heterosyklisk
ring med 1-5 heteroatomer festet til en heteromettet ring, sykloalkaner eventuelt
20 substituert med OH,

A er en monosyklisk aromatisk homo- eller heterosyklus med 0, 1, 2, 3 eller 4 N-
og/eller O-atomer og 5, 6, 7, 8, 9 eller 10 skjelett-C-atomer,

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Hal er F, Cl, Br eller I,

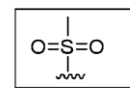
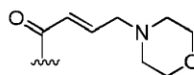
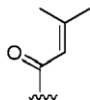
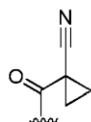
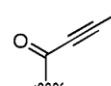
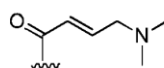
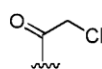
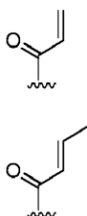
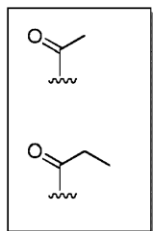
R uavhengig er hydrogen, oksygen eller en gruppe valgt fra lineært C₁₋₆-alifat, en 4-7-leddet heterosyklisk ring med 1-2 heteroatomer uavhengig valgt fra nitrogen, oksygen eller en mono- eller bisyklisk aromatisk homo- eller heterosyklus med 0, 1, 2, 3 eller 4 N-, O-atomer og 5, 6, 7 eller 8 C-skjelett-atomer, som kan være usubstituert eller, uavhengig av hverandre, mono-, di- eller trisubstituert med Hal, A, OH, NH₂, nitril og/eller C(Hal)₃ eller er et uforgrenet eller forgrenet lineært alkyl med 1, 2, 3, 4, 5, 6, 7 eller 8 C-atomer, i hvilket én eller to CH₂-grupper kan erstattes med et O-atom og/eller med en -NH-, -CO-, -NHCOO-, -NHCONH-, -CONH-, -NHCO- eller-CH=CH- gruppe, og i hvilket 1-3 H-atomer kan erstattes med Hal,

R^q er valgt fra --R, --A, halogen, --OR, --O(CH₂)_rOR, -R(NH),-NO₂, --C(O)R, --CO₂R, --C(O)N(R)₂, --NRC(O)R, --NRC(O)NR₂,-NRSO₂R eller --N(R)₂,

r er 1-4,

n er 0-4, og

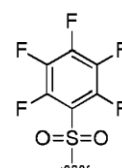
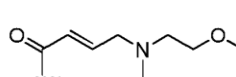
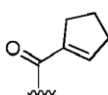
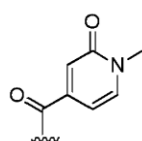
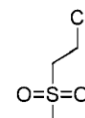
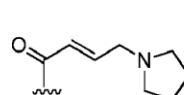
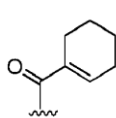
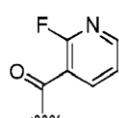
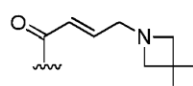
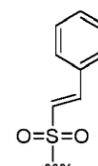
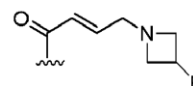
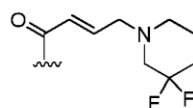
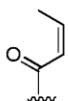
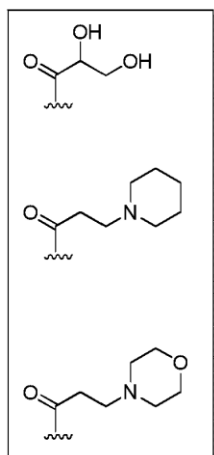
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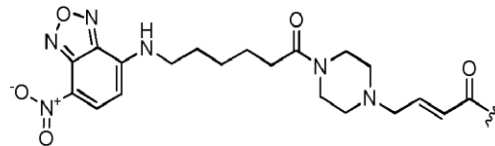
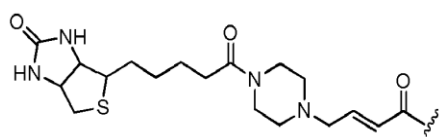
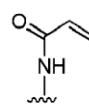
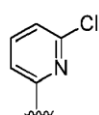
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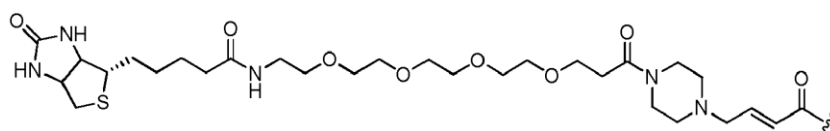
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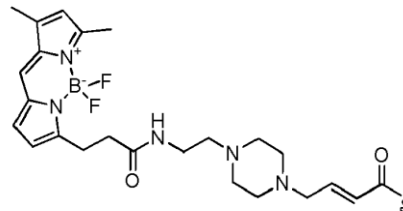
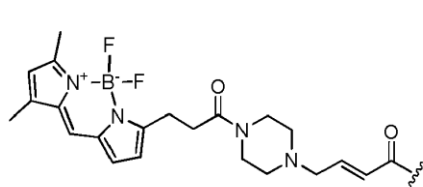


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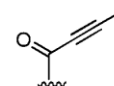
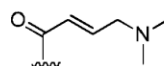
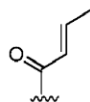
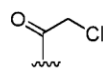
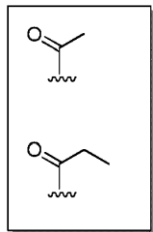


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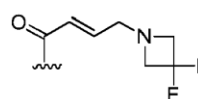
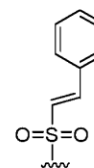
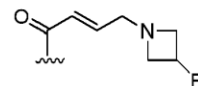
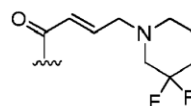
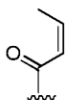
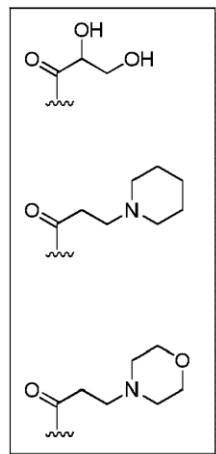
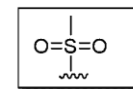
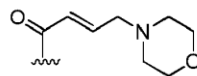
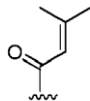
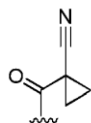
4



2. Forbindelse ifølge krav 1, hvori Q er



5

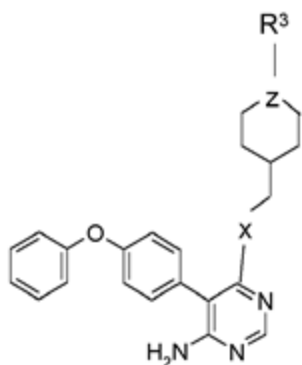


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3. Forbindelse ifølge krav 1, med formel (IV):

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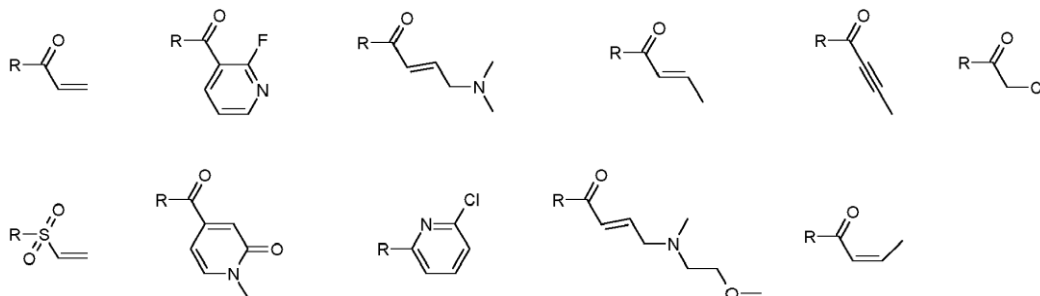
Formel (IV)

eller farmasøytisk akseptabelt salt, solvat eller solvat av salt derav,
hvor:

Z er N eller CH,

5 X er O eller NH, og

R³ er valgt fra gruppen bestående av følgende struktur:



10

4. Forbindelse valgt fra gruppen

Nr.	Kjemisk navn
"A1"	(R)-1-(3-(((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)amino)pyrrolidin-1-yl)prop-2-en-1-on
"A2"	(R)-1-(3-(((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)oksy)piperidin-1-yl)prop-2-en-1-on
"A3"	N-(3-(((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)amino)fenyl)akrylamid
"A4"	(R)-1-(3-(((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)amino)metyl)pyrrolidin-1-yl)prop-2-en-1-on

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Nr.	Kjemisk navn
"A6"	1-(4-(((5-(4-fenoksyfenyl)pyrimidin-4-yl)oksy)metyl)piperidin-1-yl)prop-2-en-1-on
"A8"	4-(4-(((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)amino)metyl)piperidin-1-karbonyl)-1-metylpyridin-2(1H)-on
"A9"	1-(4-(((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)oksy)metyl)piperidin-1-yl)but-2-yn-1-on
"A10"	5-(4-fenoksyfenyl)-N4-((1-(vinylsulfonyl)piperidin-4-yl)metyl)pyrimidin-4,6-diamin
"A11"	(E)-1-(4-(((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)amino)metyl)piperidin-1-yl)-4-((2-metoksyetyl)(metyl)amino)but-2-en-1-on
"A12"	(4-(((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)amino)metyl)piperidin-1-yl)(2-fluorpyridin-3-yl)metanon
"A13"	(E)-1-(4-(((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)amino)metyl)piperidin-1-yl)but-2-en-1-on
"A14"	N4-((1-(syklopropylsulfonyl)piperidin-4-yl)metyl)-5-(4-fenoksyfenyl)pyrimidin-4,6-diamin
"A15"	(Z)-1-(4-(((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)amino)metyl)piperidin-1-yl)but-2-en-1-on
"A16"	1-(4-(2-(((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)amino)etyl)piperidin-1-yl)prop-2-en-1-on
"A17"	1-(3-(((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)oksy)metyl)piperidin-1-yl)prop-2-en-1-on
"A19"	(R)-1-(3-(((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)oksy)pyrrolidin-1-yl)prop-2-en-1-on
"A21"	1-(3-(((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)oksy)metyl)pyrrolidin-1-yl)prop-2-en-1-on

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Nr.	Kjemisk navn
"A23"	1-(4-(((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)amino)metyl)piperidin-1-yl)etanon
A"25"	1-(4-(((2-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)amino)metyl)piperidin-1-yl)prop-2-en-1-on
"A26"	(S)-1-(3-(((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)oksy)metyl)pyrrolidin-1-yl)prop-2-en-1-on
"A28"	(S)-1-(3-(((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)amino)metyl)pyrrolidin-1-yl)prop-2-en-1-on
"A29"	1-(4-(((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)amino)metyl)piperidin-1-yl)-2-metylprop-2-en-1-on
"A30"	(4-(((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)amino)metyl)piperidin-1-yl)(sykloheks-1-en-1-yl)metanon
"A31"	1-(4-(((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)amino)metyl)piperidin-1-yl)-3-metylbut-2-en-1-on
"A32"	(4-(((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)amino)metyl)piperidin-1-yl)(syklopent-1-en-1-yl)metanon
"A34"	1-(4-(((6-amino-5-(4-(3-fluorfenoksy)fenyl)pyrimidin-4-yl)amino)metyl)piperidin-1-yl)prop-2-en-1-on
"A36"	1-(4-(((6-amino-2-metyl-5-(4-fenoksyfenyl)pyrimidin-4-yl)amino)metyl)piperidin-1-yl)prop-2-en-1-on
"A37"	1-(4-(((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)amino)metyl)-4-hydroksypiperidin-1-yl)prop-2-en-1-on
"A38"	(R)-1-(3-(((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)oksy)metyl)pyrrolidin-1-yl)prop-2-en-1-on
"A39"	1-(4-(((6-amino-5-(4-(fenylamino)fenyl)pyrimidin-4-yl)amino)metyl)piperidin-1-yl)prop-2-en-1-on
"A40"	1-(3-((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)oksy)fenyl)-1H-pyrrol-2(5H)-on

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Nr.	Kjemisk navn
"A41"	1-(4-(((6-amino-5-(4-benzylfenyl)pyrimidin-4-yl)amino)metyl)piperidin-1-yl)prop-2-en-1-on
"A42"	(4-(((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)amino)metyl)piperidin-1-yl)(syklobut-1-en-1-yl)metanon
"A43"	(Z)-1-(4-(((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)oksy)metyl)piperidin-1-yl)but-2-en-1-on
"A44"	1-(4-(((6-amino-2-metyl-5-(4-fenoksyfenyl)pyrimidin-4-yl)(metyl)amino)metyl)piperidin-1-yl)prop-2-en-1-on
"A45"	1-(4-(((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)amino)metyl)piperidin-1-yl)-2-kloretanon
"A46"	1-(4-(((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)amino)metyl)piperidin-1-yl)prop-2-yn-1-on
"A47"	1-(4-(((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)(metyl)amino)metyl)piperidin-1-yl)prop-2-en-1-on
"A48"	1-(3-(((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)amino)metyl)-8-azabisyklo[3.2.1]oktan-8-yl)prop-2-en-1-on
"A49"	N-((1S,3S)-3-((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)amino)syklopentyl)akrylamid
"A51"	N-(cis-3-((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)amino)sykloheksyl)akrylamid
"A52"	1-(3-((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)amino)azepan-1-yl)prop-2-en-1-on
"A53"	N-(trans-3-((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)amino)sykloheksyl)akrylamid
"A54"	(E)-5-(4-fenoksyfenyl)-N4-((1-(styrylsulfonyl)piperidin-4-yl)metyl)pyrimidin-4,6-diamin
"A55"	N4-((1-(metylsulfonyl)piperidin-4-yl)metyl)-5-(4-fenoksyfenyl)pyrimidin-4,6-diamin

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Nr.	Kjemisk navn
"A56"	1-(4-(((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)amino)metyl)piperidin-1-yl)-2,3-dihydroksypropan-1-on
"A60"	N-(5-((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)oksy)pyridin-3-yl)akrylamid
"A61"	(R)-1-(3-(((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)amino)metyl)pyrrolidin-1-yl)prop-2-yn-1-on
"A62"	(R,E)-1-(3-(((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)amino)metyl)pyrrolidin-1-yl)-4-(dimetylamino)but-2-en-1-on
"A63"	(E)-N-(cis-3-(((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)amino)sykloheksyl)-4-(dimetylamino)but-2-enamid
"A64"	N-(cis-3-(((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)amino)sykloheksyl)propiolamid
"A65"	(S)-1-(2-(((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)oksy)metyl)morfolino)prop-2-en-1-on
"A66"	(R)-1-(2-(((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)oksy)metyl)morfolino)prop-2-en-1-on
"A68"	1-(3-(((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)amino)metyl)-8-azabisyklo[3.2.1]oktan-8-yl)prop-2-yn-1-on
"A71"	(E)-1-(3-(((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)amino)metyl)-8-azabisyklo[3.2.1]oktan-8-yl)-4-(dimetylamino)but-2-en-1-on
"A73"	(R,E)-1-(3-((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)amino)pyrrolidin-1-yl)-4-(dimetylamino)but-2-en-1-on
"A74"	(R,E)-1-(3-((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)amino)piperidin-1-yl)-4-(dimetylamino)but-2-en-1-on
"A75"	1-(trans-3-((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)amino)-4-hydroksypyrrolidin-1-yl)prop-2-en-1-on

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Nr.	Kjemisk navn
"A76"	1-(4-(((2-amino-3-(4-fenoksyfenyl)pyridin-4-yl)amino)metyl)piperidin-1-yl)prop-2-en-1-on
"A77"	1-(4-(((6-amino-5-(4-fluorfenyl)pyrimidin-4-yl)amino)metyl)piperidin-1-yl)prop-2-en-1-on
"A78"	1-(4-(((6-amino-5-(4-(trifluormetoksy)fenyl)pyrimidin-4-yl)amino)metyl)piperidin-1-yl)prop-2-en-1-on
"A79"	1-(4-(((6-amino-5-(4-(4-(trifluormetyl)fenoksy)fenyl)pyrimidin-4-yl)amino)metyl)piperidin-1-yl)prop-2-en-1-on
"A80"	1-(4-(((6-amino-5-(4-(4-(fluorfenoksy)fenyl)pyrimidin-4-yl)amino)metyl)piperidin-1-yl)prop-2-en-1-on
"A82"	1-(4-(((6-amino-5-(3,4-dimetoksyfenyl)pyrimidin-4-yl)amino)metyl)piperidin-1-yl)prop-2-en-1-on
"A83"	1-(4-(((6-amino-5-(3,4,5-trimetoksyfenyl)pyrimidin-4-yl)amino)metyl)piperidin-1-yl)prop-2-en-1-on
"A85"	1-(4-(((6-amino-5-(4-metoksyfenyl)pyrimidin-4-yl)amino)metyl)piperidin-1-yl)prop-2-en-1-on
"A87"	1-(4-(((6-amino-5-(2,5-difluor-4-fenoksyfenyl)pyrimidin-4-yl)amino)metyl)piperidin-1-yl)prop-2-en-1-on
"A88"	1-(4-(((6-amino-5-(2,3-difluor-4-fenoksyfenyl)pyrimidin-4-yl)amino)metyl)piperidin-1-yl)prop-2-en-1-on
"A90"	1-(4-(((6-amino-5-(4-fenoksy-2-(trifluormetyl)fenyl)pyrimidin-4-yl)amino)metyl)piperidin-1-yl)prop-2-en-1-on
"A94"	1-(4-(((6-amino-5-(4-(4-hydroksyfenoksy)fenyl)pyrimidin-4-yl)amino)metyl)piperidin-1-yl)prop-2-en-1-on
"A95"	1-(4-(((6-amino-5-(4-(3-(trifluormetyl)fenoksy)fenyl)pyrimidin-4-yl)amino)metyl)piperidin-1-yl)prop-2-en-1-on
"A96"	1-(4-(((6-amino-5-(4-(pyridin-3-yloksy)fenyl)pyrimidin-4-yl)amino)metyl)piperidin-1-yl)prop-2-en-1-on

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Nr.	Kjemisk navn
"A97"	1-(4-(((6-amino-5-(4-(pyridin-4-yloksy)fenyl)pyrimidin-4-yl)amino)metyl)piperidin-1-yl)prop-2-en-1-on
"A98"	1-(4-(((6-amino-5-(4-(p-tolyloksy)fenyl)pyrimidin-4-yl)amino)metyl)piperidin-1-yl)prop-2-en-1-on
"A103"	1-(3-(2-((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)amino)etyl)azetidin-1-yl)prop-2-en-1-on
"A104"	1-(3-(2-((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)amino)etyl)azetidin-1-yl)prop-2-yn-1-on
"A105"	(E)-1-(6-((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)oksy)-2-azaspiro[3.3]heptan-2-yl)-4-(dimetylamino)but-2-en-1-on
"A108"	1-(6-((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)amino)-2-azaspiro[3.3]heptan-2-yl)but-2-yn-1-on
"A113"	1-(2-((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)amino)-6-azaspiro[3.4]oktan-6-yl)prop-2-en-1-on
"A114"	1-(6-((6-amino-5-(4-(pyridin-4-yloksy)fenyl)pyrimidin-4-yl)oksy)-2-azaspiro[3.3]heptan-2-yl)prop-2-en-1-on
"A115"	1-(2-((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)amino)-6-azaspiro[3.4]oktan-6-yl)prop-2-yn-1-on
"A116"	1-(6-((6-amino-5-(1-(pyridin-4-ylmetyl)-1H-pyrazol-4-yl)pyrimidin-4-yl)amino)-2-azaspiro[3.3]heptan-2-yl)prop-2-en-1-on
"A117"	N-(1,3-trans-3-((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)amino)syklobutyl)akrylamid
"A118"	N-((1,3-cis-3-((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)amino)syklobutyl)akrylamid
"A119"	N4-(2-((2-kloretyl)sulfonyl)-2-azaspiro[3.3]heptan-6-yl)-5-(4-fenoksyfenyl)pyrimidin-4,6-diamin
"A120"	1-(6-((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)oksy)-2-azaspiro[3.3]heptan-2-yl) prop-2-en-1-on

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Nr.	Kjemisk navn
"A121"	1-(4-(((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)amino)metyl)-4-metoksypiperidin-1-yl)prop-2-en-1-on
"A122"	N-(6-((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)amino)spiro[3.3]heptan-2-yl)akrylamid
"A123"	1-(1-((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)amino)-7-azaspiro[3.5]nonan-7-yl)prop-2-en-1-on
"A124"	1-(6-((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)amino)-2-azaspiro[3.3]heptan-2-yl)prop-2-en-1-on
"A125"	1-(8-((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)amino)-5-azaspiro[3.5]nonan-5-yl)prop-2-en-1-on
"A126"	(E)-1-((3S,4S)-4-(((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)amino)metyl)-3-hydroksypiperidin-1-yl)-4-(dimetylamino)but-2-en-1-on
"A127"	(E)-1-(6-((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)amino)-2-azaspiro[3.3]heptan-2-yl)-4-(dimetylamino)but-2-en-1-on
"A141"	1-(3-((6-amino-5-(4-fenoksyfenyl)-pyrimidin-4-ylamino)-metyl)-fenyl)-but-2-yn-1-on
"A142"	1-(3-((6-amino-5-(4-fenoksyfenyl)-pyrimidin-4-ylamino)-metyl)-fenyl)-but-2-en-1-on
"A143"	1-((1S,3S)-3-(6-amino-5-(4-fenoksyfenyl)-pyrimidin-4-ylamino)-sykloheksyl)-propenon
"A144"	1-((1S,3S)-3-(6-amino-5-(4-fenoksyfenyl)-pyrimidin-4-ylamino)-sykloheksyl)-but-2-en-1-on
"A145"	1-((1S,3S)-3-(6-amino-5-(4-fenoksyfenyl)-pyrimidin-4-ylamino)-sykloheksyl)-but-2-yn-1-on
"A146"	1-((1S,3R)-3-(6-amino-5-(4-fenoksyfenyl)-pyrimidin-4-ylamino)-sykloheksyl)-but-2-en-1-on

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Nr.	Kjemisk navn
"A147"	1-((1S,3R)-3-(6-amino-5-(4-fenoksyfenyl)-pyrimidin-4-ylamino)-sykloheksyl)-but-2-yn-1-on
"A148"	(S)-1-(3-((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)amino)pyrrolidin-1-yl)prop-2-en-1-on
"A149"	N-(3-((2-amino-3-(4-(benzyloksy)fenyl)pyridin-4-yl)oksy)fenyl)akrylamid
"A150"	1-(3-((2-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)amino)piperidin-1-yl)prop-2-en-1-on
"A151"	(E)-N-(3-((2-amino-3-(4-fenoksyfenyl)pyridin-4-yl)oksy)fenyl)-4-(dimetylamino)but-2-enamid
"A153"	(E)-1-(4-(((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)amino)metyl)piperidin-1-yl)-4-(dimetylamino)but-2-en-1-on
"A155"	4-(4-(((1-akryloylpyrrolidin-3-yl)metyl)amino)-6-aminopyrimidin-5-yl)-N-fenylbenzamid
"A157"	4-(4-(((1-akryloylpiperidin-4-yl)metyl)amino)-6-aminopyrimidin-5-yl)-N-fenylbenzamid
"A158"	N-(3-((2-amino-3-(4-fenoksyfenyl)pyridin-4-yl)oksy)-4-fluorfenyl)akrylamid
"A159"	4-(4-((cis-4-akrylamidosykloheksyl)amino)-6-aminopyrimidin-5-yl)-N-fenylbenzamid
"A160"	(E)-1-(3-((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)amino)piperidin-1-yl)-4-(dimetylamino)but-2-en-1-on
"A161"	N-(3-((6-amino-5-(6-fenoksy-pyridin-3-yl)pyrimidin-4-yl)oksy)-4-fluorfenyl)akrylamid
"A162"	N-(3-((6-amino-5-(4-(pyridin-2-yloksy)fenyl)pyrimidin-4-yl)oksy)fenyl)akrylamid
"A164"	N-(3-((6-amino-5-(3-(trifluormetoksy)fenyl)pyrimidin-4-yl)oksy)fenyl)akrylamid

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Nr.	Kjemisk navn
"A165"	N-(3-((6-amino-5-(6-(2-fluorfenoksy)pyridin-3-yl)pyrimidin-4-yl)oksy)fenyl)akrylamid
"A166"	N-(3-((6-amino-5-(6-(4-fluorfenoksy)pyridin-3-yl)pyrimidin-4-yl)oksy)fenyl)akrylamid
"A167"	N-(6-((5-(4-fenoksyfenyl)pyrimidin-4-yl)amino)pyridin-2-yl)akrylamid
"A168"	1-(4-(((6-amino-5-(6-fenoksy)pyridin-3-yl)pyrimidin-4-yl)amino)metyl)piperidin-1-yl)prop-2-en-1-on
"A169"	1-(4-(((6-amino-5-(4-(3-(trifluormetyl)fenoksy)fenyl)pyrimidin-4-yl)amino)metyl)-4-hydroksypiperidin-1-yl)prop-2-en-1-on
"A170"	1-((3S,4S)-4-(((6-amino-5-(4-(3-(trifluormetyl)fenoksy)fenyl)pyrimidin-4-yl)amino)metyl)-3-hydroksypiperidin-1-yl)prop-2-en-1-on
"A171"	1-(4-(((6-amino-2'-fenoksy-[5,5'-bipyrimidin]-4-yl)amino)metyl)piperidin-1-yl)prop-2-en-1-on
"A173"	N-((1S,3R)-3-((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)amino)sykloheksyl)akrylamid
"A174"	N-((1R,3S)-3-((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)amino)sykloheksyl)akrylamid
"A175"	N-((1R,3R)-3-((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)amino)sykloheksyl)akrylamid
"A176"	N-((1S,3S)-3-((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)amino)sykloheksyl)akrylamid
"A177"	N-(4-((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)amino)bisyklo[2.1.1]heksan-1-yl)akrylamid
"A178"	(R)-N4-(1-((perfluorfenyl)sulfonyl)pyrrolidin-3-yl)-5-(4-fenoksyfenyl)pyrimidin-4,6-diamin

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Nr.	Kjemisk navn
"A179"	(R)-N4-(1-((perfluorfenyl)sulfonyl)piperidin-3-yl)-5-(4-fenoksyfenyl)pyrimidin-4,6-diamin
"A181"	N-(cis-3-((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)amino)syklopentyl)akrylamid
"A182"	N-(3-(((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)amino)metyl)syklobutyl)akrylamid
"A185"	1-(3-((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)amino)azetidin-1-yl)prop-2-en-1-on
"A186"	N-(5-((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)amino)pyridin-3-yl)akrylamid
"A188"	N-((1 R,3S,5R)-3-((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)amino)-5-hydroksysykloheksyl)akrylamid (racemisk)
"A197"	N-(5-((6-amino-5-(4-(4-cyanofenoksy)fenyl)pyrimidin-4-yl)oksy)pyridin-3-yl)akrylamid
"A199"	4-(4-(4-(((3S,4S)-1-akryloyl-3-hydroksypiperidin-4-yl)metyl)amino)-6-aminopyrimidin-5-yl)fenoksy)benzonitril
"A200"	(R)-4-(4-(4-((4-akryloylmorpholin-2-yl)metoksy)-6-aminopyrimidin-5-yl)fenoksy)benzonitril
"A201"	(R)-4-(4-(4-((1-akryloylpyrrolidin-3-yl)metoksy)-6-aminopyrimidin-5-yl)fenoksy)benzonitril
"A202"	4-(4-(4-((2-akryloyl-2-azaspiro[3.3]heptan-6-yl)oksy)-6-aminopyrimidin-5-yl)fenoksy)benzonitril
"A204"	1-((3S,5S)-3-((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)amino)-5-fluorpiperidin-1-yl)prop-2-en-1-on
"A205"	1-((3R,5R)-3-((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)amino)-5-fluorpiperidin-1-yl)prop-2-en-1-on
"A206"	metyl 3-((4-(4-(3-akrylamidofenoksy)-6-aminopyrimidin-5-yl)-1H-pyrazol-1-yl)metyl)benzoate

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Nr.	Kjemisk navn
"A207"	4-(4-(4-((2-akryloyl-2-azaspiro[3.3]heptan-6-yl)amino)-6-aminopyrimidin-5-yl)fenoksy)benzonitril
"A208"	4-(4-(4-(((8-akryloyl-8-azabisyklo[3.2.1]oktan-3-yl)metyl)amino)-6-aminopyrimidin-5-yl)fenoksy)benzonitril
"A210"	1-((3R,4R)-3-((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)amino)-4-hydroksypiperidin-1-yl)prop-2-en-1-on (racemisk)
"A213"	N-(3-((6-amino-5-(4-(3-cyanofenoksy)fenyl)pyrimidin-4-yl)oksy)fenyl)akrylamid
"A214"	3-(4-(4-(((1-akryloylpiperidin-4-yl)metyl)amino)-6-aminopyrimidin-5-yl)fenoksy)benzonitril
"A215"	1-((3S,4S)-4-(((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)amino)metyl)-3-hydroksypiperidin-1-yl)but-2-yn-1-on
"A216"	1-akryloyl-4-(((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)amino)metyl)piperidin-4-karboksylysyre
"A217"	(E)-4-(((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)amino)metyl)-1-(4-(dimetylamino)but-2-enoyl)piperidin-4-karboksylysyre
"A218"	(E)-1-(4-(((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)amino)metyl)piperidin-1-yl)-4-(3-fluorazetidin-1-yl)but-2-en-1-on
"A219"	(E)-1-(4-(((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)amino)metyl)piperidin-1-yl)-4-(3,3-difluorazetidin-1-yl)but-2-en-1-on
"A220"	(E)-1-(4-(((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)amino)metyl)piperidin-1-yl)-4-(pyrrolidin-1-yl)but-2-en-1-on
"A221"	1-(6-((6-amino-5-(4-(pyridin-3-yloksy)fenyl)pyrimidin-4-yl)oksy)-2-azaspiro[3.3]heptan-2-yl)prop-2-en-1-on
"A222"	(E)-1-(6-((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)oksy)-2-azaspiro[3.3]heptan-2-yl)-4-(3-fluorazetidin-1-yl)but-2-en-1-on

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Nr.	Kjemisk navn
"A223"	(E)-1-(6-((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)oksy)-2-azaspiro[3.3]heptan-2-yl)-4-(3-fluorazetidin-1-yl)but-2-en-1-on
"A224"	(E)-N-(1,3-cis-3-((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)amino)syklobutyl)-4-(dimetylamino)but-2-enamid
"A225"	1-(4-(((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)amino)metyl)-4-fluorpiperidin-1-yl)prop-2-en-1-on
"A226"	(E)-1-(2-((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)amino)-6-azaspiro[3.4]oktan-6-yl)-4-(dimetylamino)but-2-en-1-on
"A227"	(E)-1-(4-(((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)amino)metyl)-4-fluorpiperidin-1-yl)-4-(dimetylamino)but-2-en-1-on
"A228"	(E)-N-(1,3-trans-3-((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)amino)syklobutyl)-4-(dimetylamino)but-2-enamid
"A235"	1-(4-(((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)amino)metyl)-4-fluorpiperidin-1-yl)-3-(piperidin-1-yl)propan-1-on
"A236"	(E)-N-(1,3-cis-3-((6-amino-5-(4-(3-(trifluormetyl)fenoksy)fenyl)pyrimidin-4-yl)amino)syklobutyl)-4-(dimetylamino)but-2-enamid
"A237"	N-(1,3-trans-3-((6-amino-5-(4-(3-(trifluormetyl)fenoksy)fenyl)pyrimidin-4-yl)amino)syklobutyl)akrylamid
"A238"	N-(1,3-cis-3-((6-amino-5-(4-(3-(trifluormetyl)fenoksy)fenyl)pyrimidin-4-yl)amino)syklobutyl)akrylamid
"A240"	N-(3-((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)oksy)-2-fluorfenyl)akrylamid
"A241"	N-(3-((4-amino-6-(4-fenoksyfenyl)amino)pyrimidin-5-yl)fenyl)akrylamid

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Nr.	Kjemisk navn
"A242"	N-(3-((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)oksy)fenyl)akrylamid
"A244"	N-(3-((2-amino-3-(4-fenoksyfenyl)pyridin-4-yl)oksy)fenyl)akrylamid
"A246"	N-(3-((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)oksy)-4-fluorfenyl)akrylamid
"A247"	(R)-1-(3-((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)amino)piperidin-1-yl)prop-2-en-1-on
"A250"	1-(4-(((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)amino)metyl)piperidin-1-yl)prop-2-en-1-on
"A251"	N-(5-((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)oksy)-2,4-difluorfenyl)akrylamid
"A252"	(E)-N-(3-((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)oksy)fenyl)-4-(dimetylamino)but-2-enamid
"A253"	1-(3-((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)amino)piperidin-1-yl)prop-2-en-1-on
"A255"	N-(3-((5-(4-fenoksyfenyl)pyrimidin-4-yl)oksy)fenyl)akrylamid
"A258"	4-(4-(3-akrylamidofenoksy)-6-aminopyrimidin-5-yl)-N-fenylbenzamid
"A261"	N-(3-((6-amino-2'-(benzyloksy)-[5,5'-bipyrimidin]-4-yl)oksy)fenyl)akrylamid
"A262"	1-(3-(((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)amino)metyl)pyrrolidin-1-yl)prop-2-en-1-on
"A264"	N-(3-((6-amino-5-(4-((4-metoksybenzyl)oksy)fenyl)pyrimidin-4-yl)oksy)fenyl)akrylamid
"A265"	(E)-N-(3-((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)oksy)fenyl)-4-morfolinobut-2-enamid

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Nr.	Kjemisk navn
"A266"	N-(((1s,4s)-4-((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)amino)sykloheksyl)akrylamid
"A268"	N-(3-((6-amino-5-(6-fenoksyfurydin-3-yl)pyrimidin-4-yl)oksy)fenyl)akrylamid
"A270"	N-(3-((3-(4-fenoksyfenyl)furydin-4-yl)oksy)fenyl)akrylamid
"A271"	N-(3-((2-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)oksy)fenyl)akrylamid
"A275"	(S)-1-(3-((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)amino)piperidin-1-yl)prop-2-en-1-on
"A276"	N-(((1r,4r)-4-((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)amino)sykloheksyl)akrylamid
"A277"	N-(3-((6-amino-5-(4-fluor-3-metoksyfenyl)pyrimidin-4-yl)oksy)fenyl)akrylamid
"A278"	N-(3-((6-amino-5-(4-(2-hydroksypropan-2-yl)fenyl)pyrimidin-4-yl)oksy)fenyl)akrylamid
"A280"	N-(4-((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)oksy)fenyl)akrylamid
"A284"	1-(3-((5-(4-fenoksyfenyl)pyrimidin-4-yl)amino)piperidin-1-yl)prop-2-en-1-on
"A286"	1-(3-(((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)amino)metyl)piperidin-1-yl)prop-2-en-1-on
"A289"	N-(3-((6-amino-5-(4-isopropoksyfenyl)pyrimidin-4-yl)oksy)fenyl)akrylamid
"A290"	(E)-N-(4-((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)oksy)fenyl)-4-(dimetylamino)but-2-enamid
"A291"	N-(3-((6-amino-5-(5-metoksyfurydin-3-yl)pyrimidin-4-yl)oksy)fenyl)akrylamid

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Nr.	Kjemisk navn
"A295"	(E)-N-(3-((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)oksy)fenyl)-4-(4-(5-((4S)-2-oksoheksahydro-1H-tieno[3,4-d]imidazol-4-yl)pentanoyl)piperazin-1-yl)but-2-enamid
"A297"	N-(4-((3-(4-fenoksyfenyl)pyridin-4-yl)oksy)fenyl)akrylamid
"A298"	N-(1-(6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)piperidin-3-yl)akrylamid
"A299"	1-(4-((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)amino)piperidin-1-yl)prop-2-en-1-on
"A308"	N-(4-((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)oksy)fenyl)propionamid
"A309"	N-((1-(6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)piperidin-3-yl)metyl)akrylamid
"A318"	N-(3-((3-(4-fenoksyfenyl)pyridin-4-yl)oksy)fenyl)propionamid
"A321"	N-(4-((3-(4-fenoksyfenyl)pyridin-4-yl)oksy)fenyl)propionamid
"A326"	N-(3-((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)oksy)fenyl)propionamid
"A331"	(E)-3-(7-((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)oksy)naftalen-2-yl)-N,N-dimetylakrylamid
"A333"	1-(4-(((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)amino)metyl)piperidin-1-yl)propan-1-on
"A334"	1-(4-(((5-(4-fenoksyfenyl)pyrimidin-4-yl)amino)metyl)piperidin-1-yl)prop-2-en-1-on
"A335"	1-(4-(((6-amino-5-(4-(pyridin-2-yloksy)fenyl)pyrimidin-4-yl)amino)metyl)piperidin-1-yl)prop-2-en-1-on
"A336"	1-(4-(((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)amino)metyl)piperidin-1-yl)but-2-yn-1-on
"A337"	N4-((1-(6-klorpyridin-2-yl)piperidin-4-yl)metyl)-5-(4-fenoksyfenyl)pyrimidin-4,6-diamin

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Nr.	Kjemisk navn
"A338"	1-(4-(((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)oksy)metyl)piperidin-1-yl)prop-2-en-1-on
"A340"	N-(3-((2-amino-3-(4-fenoksyfenyl)pyridin-4-yl)oksy)fenyl)but-2-ynamid
"A341"	(R)-1-(3-(((6-amino-5-(4-fenoksyfenyl)pyrimidin-4-yl)amino)pyrrolidin-1-yl)but-2-yn-1-on
"A352"	N-{4-[4-(3-akryloylamino-fenoksy)-6-amino-pyrimidin-5-yl]-fenyl}-benzamid

og farmasøytisk anvendelige salter, tautomerer og stereoisomerer derav, inkludert blandinger derav i alle forhold.

5 **5.** Medikament omfattende minst én forbindelse med formelen II eller IV ifølge ett eller flere av kravene 1-4 og/eller farmasøytisk anvendelig salt, tautomer og stereoisomer derav, inkludert blandinger derav i alle forhold, og eventuelt eksipienter og/eller adjuvanser.

10 **6.** Forbindelse ifølge ett eller flere av kravene 1-4 for anvendelse i behandling av en fast tumor eller en tumor i blodet og immunsystemet.

15 **7.** Forbindelsen for anvendelse ifølge krav 6, der den faste tumoren stammer fra gruppen av tumorer i plateepitelene, blæren, magen, nyrene, hode og hals, spiserøret, livmorhalsen, skjoldbruskkjertelen, tarmen, leveren, hjernen, prostata, urogenitaltrakten, lymfesystemet, magen, strupehodet og/eller lungen, eller fra lungeadenokarsinom, småcellet lungekarsinomer, bukspyttkjertelkreft, glioblastomer, brystkarsinom eller tykktarmskarsinom.

20 **8.** Forbindelsen for anvendelse ifølge krav 6, der tumoren i blodet og immunsystemet stammer fra gruppen av monocyttisk leukemi, akutt myeloid leukemi, kronisk myeloid leukemi, akutt lymfatisk leukemi og/eller kronisk lymfatisk leukemi.

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5 **9.** Medikament omfattende minst én forbindelse med formelen II eller IV ifølge ett eller flere av kravene 1 til 4 og/eller farmasøytisk anvendelig salt, tautomer og stereoisomer derav, inkludert blandinger derav i alle forhold, og minst ett ytterligere legemiddelvirkestoff.

10 **10.** Sett (kit) bestående av separate pakker av
(a) en effektiv mengde av en forbindelse med formelen II eller IV ifølge ett eller flere av kravene 1 til 4 og/eller farmasøytisk anvendelig salt, tautomer og stereoisomer derav, inkludert blandinger derav i alle forhold,
og
(b) en effektiv mengde av et ytterligere legemiddelvirkestoff.