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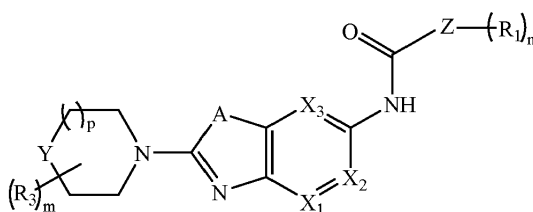
(54) Title **COMPOUNDS AND COMPOSITIONS FOR TREATING HEMATOLOGICAL DISORDERS**

(56) References  
Cited: WO-A1-2015/104688  
US-A1- 2015 094 315  
US-A1- 2013 035 326  
WO-A1-2017/009806

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 av formel II, eller et farmasøytisk akseptabelt salt derav, for anvendelse i behandling eller forebygging av akutt myelogen leukemi (AML), hvori AML er resistent mot behandling med en FMS-lignende tyrosinkinase 3 (FLT-3)-inhibitor;



5

hvori

X<sub>1</sub> og X<sub>3</sub> uavhengig er CH eller N; X<sub>2</sub> er CR<sub>2</sub> eller N; gitt at én og ikke mer enn én av X<sub>1</sub>, X<sub>2</sub> eller X<sub>3</sub> er N;

A er O eller S;

10

Y er -CH<sub>2</sub>- eller O;

Z er aryl eller heterosyklyl;

R<sub>i</sub>, ved hver forekomst, er uavhengig halogen eller eventuelt substituert heterosyklyl;

hvori substituenten er alkyl, alkoksy, aminoalkyl, halogen, hydroksyl, hydroksyalkyl eller -NR<sub>a</sub>R<sub>b</sub>;

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R<sub>2</sub> er hydrogen, eventuelt substituert sykloalkyl, eventuelt substituert aryl, eventuelt substituert heterosyklyl eller -NR<sub>a</sub>R<sub>b</sub>; hvori substituenten er alkyl, amino, halogen eller hydroksyl;

R<sub>3</sub>, ved hver forekomst, er alkyl eller hydroksyl;

R<sub>a</sub> og R<sub>b</sub> er uavhengig hydrogen, alkyl, acyl eller heterosyklyl;

20

'm' og 'n' er uavhengig 0, 1 eller 2; og

'p' er 0 eller 1.

2. Forbindelse for anvendelse ifølge krav 1, hvori

25

A er O eller S;

Y er -CH<sub>2</sub>- eller O;

Z er aryl eller heterosyklyl;

R<sub>i</sub>, ved hver forekomst, er uavhengig halogen eller eventuelt substituert heterosyklyl;

hvor substituenten er alkyl, alkoksy, aminoalkyl, halogen, hydroksyl eller -NR<sub>a</sub>R<sub>b</sub>; der

R<sub>a</sub> og R<sub>b</sub> er uavhengig hydrogen, alkyl eller heterosyklyl;

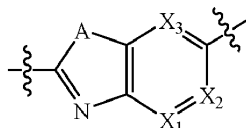
5 R<sub>2</sub> er hydrogen, sykloalkyl, eventuelt substituert heterosyklyl eller -NR<sub>a</sub>R<sub>b</sub>, der substituenten velges fra amino, halogen eller hydroksyl;

'm' og 'n' er uavhengig 0, 1 eller 2; og

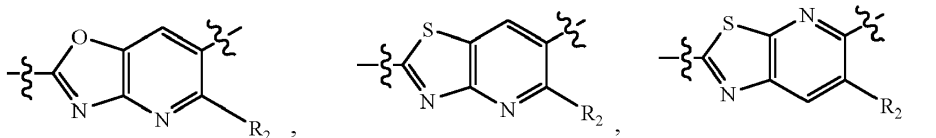
'p' er 0 eller 1.

10

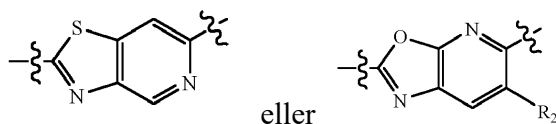
3. Forbindelse for anvendelse ifølge krav 1, hvori



er



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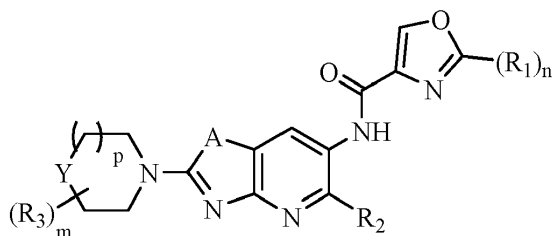
eller

4. Forbindelse for anvendelse ifølge et hvilket som helst av kravene 1–3, hvori Z er (a) et aryl  
 20 eller 5- eller 6-leddet heterosyklyl, eller (b) valgt fra fenyl, furanyl, tienyl, pyrrolyl, pyrazolyl, imidazolyl, oksazolyl, isokazolyl, tiazolyl, isotiazolyl, 1H-tetrazolyl, oksadiazolyl, triazolyl, pyridyl, pyrimidinyl, pyrazinyl, pyridazinyl, azetidinyll, oksetanyl, imidazolidinyl, pyrrolidinyl, oksazolidinyl, tiazolidinyl, pyrazolidinyl, tetrahydrofuranlyl, piperidinyl, piperazinyl, tetrahydropyranlyl, morfolinyl, tiomorfolinyl, 1,4-dioksanyll, dioksidotiomorfolinyl,  
 25 oksapiperazinyl, oksapiperidinyl, tetrahydrofuryll, tetrahydropyranlyl, tetrahydrotiofenyl, dihydropyranlyl og azabisyklo[3.2.1]oktanyll; hver av disse substitueres eventuelt med alkyl,

alkoksy, halogen, hydroksyl, hydroksyalkyl eller

$-NR_aR_b$ ; og  $R_a$  og  $R_b$  er uafhængig hydrogen, alkyl eller acyl.

5. Forbindelse for anvendelse ifølge krav 1 representert av formel (IIA):



(IIA)

5

eller et farmasøytisk akseptabelt salt derav.

6. Forbindelse for anvendelse ifølge krav 5, hvori

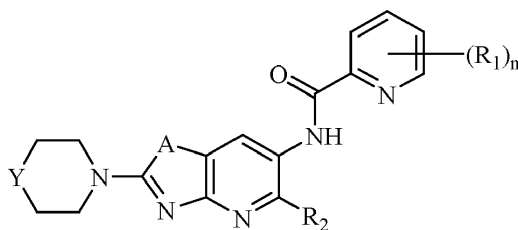
A er O eller S;

10 Y er  $-CH_2-$  eller O;

$R_i$ , ved hver forekomst, er uafhængig halogen eller eventuelt substituert heterosykl; hvori substituenten er alkyl, alkoksy, aminoalkyl, halogen, hydroksyl eller  $-NR_aR_b$ ; der  $R_a$  og  $R_b$  er uafhængig hydrogen, alkyl eller heterosykl;

15  $R_2$  er hydrogen, sykloalkyl, eventuelt substituert heterosykl eller  $-NR_aR_b$ , der substituenten velges fra amino, halogen eller hydroksyl; og 'm' og 'n' er uafhængig 0, 1 eller 2.

7. Forbindelse for anvendelse ifølge krav 1, representert av (IIB):



(IIB)

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eller et farmasøytisk akseptabelt salt derav.

**8.** Forbindelse for anvendelse ifølge krav 7, hvori

A er O eller S;

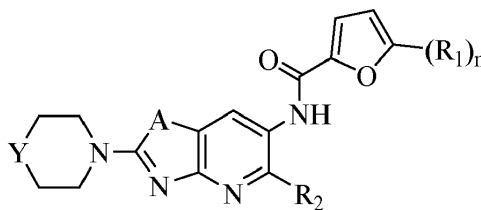
5 Y er -CH<sub>2</sub>- eller O;

R<sub>i</sub>, ved hver forekomst, er uavhengig halogen eller eventuelt substituert heterosyklyl;  
hvori substituenten er alkyl, alkoksy, aminoalkyl, halogen, hydroksyl eller -NR<sub>a</sub>R<sub>b</sub>; der  
R<sub>a</sub> og R<sub>b</sub> er uavhengig hydrogen, alkyl eller heterosyklyl;

10 R<sub>2</sub> er hydrogen, sykloalkyl, eventuelt substituert heterosyklyl eller -NR<sub>a</sub>R<sub>b</sub>, der  
substituenten velges fra amino, halogen eller hydroksyl; og

'm' og 'n' er uavhengig 0, 1 eller 2.

**9.** Forbindelse for anvendelse ifølge krav 1, hvori forbindelsen er en forbindelse av formel (IIC)



15

(IIC)

eller et farmasøytisk akseptabelt salt derav.

**10.** Forbindelse for anvendelse ifølge et hvilket som helst av kravene 1–9, hvori R<sub>1</sub> er eventuelt  
substituert heterosyklyl; hvori substituenten er alkyl, alkoksy, aminoalkyl, halogen, hydroksyl,

20 hydroksyalkyl eller -NR<sub>a</sub>R<sub>b</sub>; og R<sub>a</sub> og R<sub>b</sub> er uavhengig hydrogen eller acyl, eller

hvori R<sub>1</sub> er eventuelt substituert heterosyklyl; og substituenten er alkyl, alkoksy,  
aminoalkyl, halogen, hydroksyl eller -NR<sub>a</sub>R<sub>b</sub>; der R<sub>a</sub> og R<sub>b</sub> er uavhengig hydrogen, alkyl  
eller heterosyklyl; eller

hvori R<sub>1</sub> er halogen.

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- 11.** Forbindelse for anvendelse ifølge krav 10, hvori  $R_1$  er eventuelt substituert pyrazolyl, hvori den valgfrie substituenten er alkyl, hydroksyl eller  $-NR_aR_b$ .
- 12.** Forbindelsen for anvendelse ifølge et hvilket som helst av kravene 1–11, hvori  $R_2$  er hydrogen, sykloalkyl, slik som syklopropyl; eventuelt substituert heterosyklyl, slik som piperidinyl, pyrrolidinyl, morfolinyl, piperazinyl, azetidinyll, pyrazolyl, furanyl eller azabisyklo[3.2.1]oktanyl; hvori substituenten er hydroksyl, halogen, alkyl eller amino; eller  $-NR_aR_b$ , der substituenten velges fra amino, halogen eller hydroksyl.
- 13.** Forbindelse for anvendelse ifølge et hvilket som helst av kravene 1–12, hvori  $R_3$  er alkyl.
- 14.** Forbindelse for anvendelse ifølge et hvilket som helst av kravene 1–13, hvori  $m$  er 0 eller 2, og  $p$  er 0 eller 1.
- 15.** Forbindelse for anvendelse ifølge krav 1, hvori forbindelsen av formel (II) velges fra:

6'-amino-N-(2-morfolinooksazolo[4,5-b]pyridin-6-yl)-[2,3'-bipyridin]-6-karboksamid;
6'-amino-N-(5-syklopropyl-2-morfolinooksazolo[4,5-b]pyridin-6-yl)-[2,3'-bipyridin]-6-karboksamidhydroklorid;
N-(5-syklopropyl-2-morfolinooksazolo[4,5-b]pyridin-6-yl)-2-(2-metylpyridin-4-yl)oksazol-4-karboksamidhydroklorid;
N-(2,5-di(piperidin-1-yl)oksazolo[4,5-b]pyridin-6-yl)-6-(1H-pyrazol-4-yl)pikolinamidhydroklorid;
N-(2,5-di(piperidin-1-yl)oksazolo[4,5-b]pyridin-6-yl)-2-(2-metylpyridin-4-yl)oksazol-4-karboksamid;
N-(2-morfolino-5-(piperidin-1-yl)oksazolo[4,5-b]pyridin-6-yl)-6-(1H-pyrazol-4-yl)pikolinamid;

2-(2-metylpyridin-4-yl)-N-(2-morfolino-5-(piperidin-1-yl)oksazolo[4,5-b]pyridin-6-yl)oksazol-4-karboksamid;
6-klor-N-(2-morfolino-5-(piperidin-1-yl)oksazolo[4,5-b]pyridin-6-yl)pikolinamid;
N-(2,5-di(piperidin-1-yl)oksazolo[4,5-b]pyridin-6-yl)-6-(1-metyl-1H-pyrazol-4-yl)pikolinamid;
2-(2-klorpyridin-4-yl)-N-(2,5-di(piperidin-1-yl)oksazolo[4,5-b]pyridin-6-yl)oksazol-4-karboksamid;
(S)-2-(2-metylpyridin-4-yl)-N-(2-morfolino-5-(pyrrolidin-3-ylamino)oksazolo[4,5-b]pyridin-6-yl)oksazol-4-karboksamid;
6'-amino-N-(2-morfolinooksazolo[5,4-b]pyridin-5-yl)-[2,3'-bipyridin]-6-karboksamid;
6'-amino-N-(2-morfolinotiazolo[4,5-c]pyridin-6-yl)-[2,3'-bipyridin]-6-karboksamid;
6'-amino-N-(2-morfolinotiazolo[5,4-b]pyridin-5-yl)-[2,3'-bipyridin]-6-karboksamid;
2-(2-metylpyridin-4-yl)-N-(2-morfolinotiazolo[4,5-b]pyridin-6-yl)oksazol-4-karboksamid;
6'-amino-N-(2-morfolinotiazolo[4,5-b]pyridin-6-yl)-[2,3'-bipyridin]-6-karboksamid;
N-(2-morfolinotiazolo[4,5-b]pyridin-6-yl)-6-(1H-pyrazol-4-yl)pikolinamid;
3-(4-(aminometyl)piperidin-1-yl)-5-fluor-N-(2-morfolinotiazolo[4,5-b]pyridin-6-yl)benzamid;
2-(4-(aminometyl)piperidin-1-yl)-5-fluor-N-(2-morfolinotiazolo[4,5-b]pyridin-6-yl)benzamid;
2-(2-metylpyridin-4-yl)-N-(2-morfolino-5-(piperidin-1-yl)tiazolo[4,5-b]pyridin-6-yl)oksazol-4-karboksamid;



N-(2-morfolino-5-(piperidin-1-yl)thiazolo[4,5-b]pyridin-6-yl)-6-(1H-pyrazol-4-yl)pikolinamid;
N-(2,5-di(piperidin-1-yl)thiazolo[4,5-b]pyridin-6-yl)-6-(1H-pyrazol-4-yl)pikolinamid;
N-(2,5-di(piperidin-1-yl)thiazolo[4,5-b]pyridin-6-yl)-2-(2-metylpyridin-4-yl)oksazol-4-karboksamid;
N-(2,5-dimorfolinooksazolo[4,5-b]pyridin-6-yl)-2-(2-metylpyridin-4-yl)oksazol-4-karboksamid;
N-(5-(4-metyl piperazin-1-yl)-2-morfolinooksazolo[4,5-b]pyridin-6-yl)-2-(2-metylpyridin-4-yl)oksazol-4-karboksamid;
N-(2,5-di(piperidin-1-yl)oksazolo[4,5-b]pyridin-6-yl)-2-(6-metoksypyridin-3-yl)oksazol-4-karboksamid;
N-(2,5-di(piperidin-1-yl)oksazolo[4,5-b]pyridin-6-yl)-2-(2-metylpyridin-3-yl)oksazol-4-karboksamid;
N-(2,5-di(piperidin-1-yl)oksazolo[4,5-b]pyridin-6-yl)-2-(2-hidroksypyridin-3-yl)oksazol-4-karboksamid;
2-(2-hidroksypyridin-3-yl)-N-(2-morfolino-5-(piperidin-1-yl)oksazolo[4,5-b]pyridin-6-yl)oksazol-4-karboksamid;
N-(2,5-di(piperidin-1-yl)oksazolo[4,5-b]pyridin-6-yl)-2-(6-hidroksypyridin-3-yl)oksazol-4-karboksamid;
2-(2-metoksypyridin-4-yl)-N-(2-morfolino-5-(piperidin-1-yl)oksazolo[4,5-b]pyridin-6-yl)oksazol-4-karboksamid;
2-(2-metylpyridin-3-yl)-N-(2-morfolino-5-(piperidin-1-yl)oksazolo[4,5-b]pyridin-6-yl)oksazol-4-karboksamid;
2-(3-metylpyridin-4-yl)-N-(2-morfolino-5-(piperidin-1-yl)oksazolo[4,5-b]pyridin-6-yl)oksazol-4-karboksamid;

N-(2, 5-di(piperidin-1-yl)oksazolo[4,5-b]pyridin-6-yl)-2-(3-metylpyridin-4-yl)oksazol-4-karboksamid;
2-(6-metylpyridin-3-yl)-N-(2-morfolino-5-(piperidin-1-yl)oksazolo[4,5-b]pyridin-6-yl)oksazol-4-karboksamid;
6-(1-metyl-1H-pyrazol-4-yl)-N-(2-morfolino-5-(piperidin-1-yl)oksazolo[4,5-b]pyridin-6-yl)pikolinamid;
N-(2,5-di(piperidin-1-yl)oksazolo[4,5-b]pyridin-6-yl)-2-(6-metylpyridin-3-yl)oksazol-4-karboksamid;
(S)-N-(5-(3-aminopyrrolidin-1-yl)-2-morfolinooksazolo[4,5-b]pyridin-6-yl)-2-(2-metylpyridin-4-yl)oksazol-4-karboksamid;
(S)-N-(5-(3-hidroksypyrrolidin-1-yl)-2-morfolinooksazolo[4,5-b]pyridin-6-yl)-2-(2-metylpyridin-4-yl)oksazol-4-karboksamid;
(R)-N-(5-(3-aminopyrrolidin-1-yl)-2-morfolinooksazolo[4,5-b]pyridin-6-yl)-2-(2-metylpyridin-4-yl)oksazol-4-karboksamid;
(R)-N-(5-(3-hidroksypyrrolidin-1-yl)-2-morfolinooksazolo[4,5-b]pyridin-6-yl)-2-(2-metylpyridin-4-yl)oksazol-4-karboksamid;
(S)-2-(3-aminopyrrolidin-1-yl)-N-(2-morfolino-5-(piperidin-1-yl)oksazolo[4,5-b]pyridin-6-yl)oksazol-4-karboksamid;
(S)-6-(3-hidroksypyrrolidin-1-yl)-N-(2-morfolino-5-(piperidin-1-yl)oksazolo[4,5-b]pyridin-6-yl)pikolinamid;
(S)-6-(3-aminopyrrolidin-1-yl)-N-(2-morfolino-5-(piperidin-1-yl)oksazolo[4,5-b]pyridin-6-yl)pikolinamid;
(S)-2-(3-hidroksypyrrolidin-1-yl)-N-(2-morfolino-5-(piperidin-1-yl)oksazolo[4,5-b]pyridin-6-yl)oksazol-4-karboksamid;
(S)-N-(5-syklopropyl-2-morfolinooksazolo[4,5-b]pyridin-6-yl)-2-(3-hidroksypyrrolidin-1-yl)oksazol-4-karboksamid;

(S)-2-(3-aminopyrrolidin-1-yl)-N-(5-syklopropyl-2-morfolinooksazolo[4,5-b]pyridin-6-yl)oksazol-4-karboksamid;
2-(2-metylpyridin-4-yl)-N-(5-(piperidin-1-yl)-2-(pyrrolidin-1-yl)oksazolo[4,5-b]pyridin-6-yl)oksazol-4-karboksamidhydroklorid;
N-(2-(2,6-dimetylmorfolino)-5-(piperidin-1-yl)oksazolo[4,5-b]pyridin-6-yl)-2-(2-metylpyridin-4-yl)oksazol-4-karboksamidhydroklorid;
N-(2,5-di(piperidin-1-yl)tiazolo[4,5-b]pyridin-6-yl)-6-(1-metyl-1H-pyrazol-4-yl)pikolinamidhydroklorid;
6-(1-metyl-1H-pyrazol-4-yl)-N-(2-morfolino-5-(piperidin-1-yl)tiazolo[4,5-b]pyridin-6-yl)pikolinamid;
N-(2,5-di(piperidin-1-yl)tiazolo[4,5-b]pyridin-6-yl)-2-(2-metylpyridin-3-yl)oksazol-4-karboksamidhydroklorid;
N-(2-((2S,6R)-2,6-dimetylmorfolino)-5-(piperidin-1-yl)tiazolo[4,5-b]pyridin-6-yl)-2-(2-metylpyridin-4-yl)oksazol-4-karboksamid;
2-(2-metylpyridin-3-yl)-N-(2-morfolino-5-(piperidin-1-yl)tiazolo[4,5-b]pyridin-6-yl)oksazol-4-karboksamid;
2-(2-hydroksypyridin-3-yl)-N-(2-morfolino-5-(piperidin-1-yl)tiazolo[4,5-b]pyridin-6-yl)oksazol-4-karboksamid;
N-(2,5-di(piperidin-1-yl)tiazolo[4,5-b]pyridin-6-yl)-2-(2-metoksy-pyridin-4-yl)oksazol-4-karboksamid;
2-(6-metoksy-pyridin-3-yl)-N-(2-morfolino-5-(piperidin-1-yl)tiazolo[4,5-b]pyridin-6-yl)oksazol-4-karboksamid;
2-(2-metoksy-pyridin-4-yl)-N-(2-morfolino-5-(piperidin-1-yl)tiazolo[4,5-b]pyridin-6-yl)oksazol-4-karboksamid;
(S)-N-(5-(3-fluorpiperidin-1-yl)-2-morfolinotiazolo[4,5-b]pyridin-6-yl)-2-(2-metylpyridin-4-yl)oksazol-4-karboksamid;

2-(6-metylpýridin-3-yl)-N-(2-morfolino-5-(piperidin-1-yl)tiazol[4,5-b]pýridin-6-yl)oksazol-4-karboksamid;
2-(3-metylpýridin-4-yl)-N-(2-morfolino-5-(piperidin-1-yl)tiazol[4,5-b]pýridin-6-yl)oksazol-4-karboksamid;
(S)-6-(3-aminopyrrolidin-1-yl)-N-(2-morfolino-5-(piperidin-1-yl)tiazol[4,5-b]pýridin-6-yl)pikolinamid;
(S)-6-(3-hydroksypyrrolidin-1-yl)-N-(2-morfolino-5-(piperidin-1-yl)tiazol[4,5-b]pýridin-6-yl)pikolinamid;
(S)-6-(3-aminopyrrolidin-1-yl)-N-(2,5-di(piperidin-1-yl)tiazol[4,5-b]pýridin-6-yl)pikolinamid;
(S)-N-(2, 5-di(piperidin-1-yl)tiazol[4,5-b]pýridin-6-yl)-6-(3-hydroksypyrrolidin-1-yl)pikolinamid;
(S)-2-(3-aminopyrrolidin-1-yl)-N-(2-morfolino-5-(piperidin-1-yl)tiazol[4,5-b]pýridin-6-yl)oksazol-4-karboksamid;
(S)-N-(5-(3-aminopyrrolidin-1-yl)-2-morfolinotiazolo[4, 5-b]pýridin-6-yl)-2-(2-metylpýridin-4-yl)oksazol-4-karboksamid;
(S)-2-(3-aminopyrrolidin-1-yl)-N-(5-syklopropyl-2-morfolinotiazolo[4,5-b]pýridin-6-yl)oksazol-4-karboksamid;
N-(5-syklopropyl-2-morfolinotiazolo[4,5-b]pýridin-6-yl)-2-(2-metylpýridin-4-yl)oksazol-4-karboksamid;
(S)-2-(3-hydroksypyrrolidin-1-yl)-N-(2-morfolino-5-(piperidin-1-yl)tiazol[4,5-b]pýridin-6-yl)oksazol-4-karboksamid;
(S)-N-(5-(3-hydroksypyrrolidin-1-yl)-2-morfolinotiazolo[4,5-b]pýridin-6-yl)-2-(2-metylpýridin-4-yl)oksazol-4-karboksamid;
(S)-N-(5-syklopropyl-2-morfolinotiazolo[4,5-b]pýridin-6-yl)-6-(3-hydroksypyrrolidin-1-yl)pikolinamid;

(S)-N-(5-syklopropyl-2-morfolinotiazolo[4,5-b]pyridin-6-yl)-2-(3-hydroksypyrrolidin-1-yl)oksazol-4-karboksamid;
(S)-N-(5-syklopropyl-2-morfolinotiazolo[4,5-b]pyridin-6-yl)-6-(1-(2-hydroksypropyl)-1H-pyrazol-4-yl)pikolinamid;
(S)-N-(5-syklopropyl-2-morfolinotiazolo[4,5-b]pyridin-6-yl)-2-(1-(2-hydroksypropyl)-1H-pyrazol-4-yl)oksazol-4-karboksamid;
N-(5-(3-hydroksypyrrolidin-1-yl)-2-morfolinotiazolo[4,5-b]pyridin-6-yl)-2-(6-metoksypridin-3-yl)oksazol-4-karboksamid;
(S)-N-(5-(3-hydroksypyrrolidin-1-yl)-2-morfolinotiazolo[4,5-b]pyridin-6-yl)-2-(6-metoksypridin-3-yl)oksazol-4-karboksamid;
(R)-N-(5-(3-hydroksypyrrolidin-1-yl)-2-morfolinotiazolo[4,5-b]pyridin-6-yl)-2-(6-metoksypridin-3-yl)oksazol-4-karboksamid;
(S)-N-(5-(azetidin-1-yl)-2-morfolinotiazolo[4,5-b]pyridin-6-yl)-6-(3-hydroksypyrrolidin-1-yl)pikolinamid;
N-(5-(3-hydroksyazetidin-1-yl)-2-morfolinotiazolo[4,5-b]pyridin-6-yl)-2-(2-metylpyridin-4-yl)oksazol-4-karboksamid;
(S)-N-(5-(3-hydroksypyrrolidin-1-yl)-2-morfolinotiazolo[4,5-b]pyridin-6-yl)-5-(2-metylpyridin-4-yl)tiopen-2-karboksamid;
(S)-N-(5-(3-hydroksypyrrolidin-1-yl)-2-morfolinotiazolo[4,5-b]pyridin-6-yl)-5-(2-metylpyridin-4-yl)furan-2-karboksamid;
(S)-N-(5-(3-hydroksypiperidin-1-yl)-2-morfolinotiazolo[4,5-b]pyridin-6-yl)-2-(2-metylpyridin-4-yl)oksazol-4-karboksamid;
N-(5-(4-hydroksypiperidin-1-yl)-2-morfolinotiazolo[4,5-b]pyridin-6-yl)-2-(2-metylpyridin-4-yl)oksazol-4-karboksamid
(R)-N-(5-(3-hydroksypyrrolidin-1-yl)-2-morfolinotiazolo[4,5-b]pyridin-6-yl)-2-(2-metylpyridin-4-yl)oksazol-4-karboksamid;

N-(5-(4-hydroxypiperidin-1-yl)-2-morfolinotiazolo[4,5-b]pyridin-6-yl)-5-(2-metylpyridin-4-yl)furan-2-karboksamid;
N-(5-(azetidin-1-yl)-2-(piperidin-1-yl)tiazolo[4,5-b]pyridin-6-yl)-2-(2-metylpyridin-4-yl)oksazol-4-karboksamid;
2-(2-metylpyridin-4-yl)-N-(2-(piperidin-1-yl)-5-(pyrrolidin-1-yl)tiazolo[4,5-b]pyridin-6-yl)oksazol-4-karboksamid;
2-(2-metylpyridin-4-yl)-N-(2-morfolino-5-(pyrrolidin-1-yl)tiazolo[4,5-b]pyridin-6-yl)oksazol-4-karboksamid;
5-(2-metylpyridin-4-yl)-N-(2-morfolino-5-(piperidin-1-yl)tiazolo[4,5-b]pyridin-6-yl)furan-2-karboksamid;
N-(5-(azepan-1-yl)-2-morfolinotiazolo[4,5-b]pyridin-6-yl)-2-(2-metylpyridin-4-yl)oksazol-4-karboksamid;
2-(2-aminopyridin-4-yl)-N-(2-morfolino-5-(piperidin-1-yl)tiazolo[4,5-b]pyridin-6-yl)oksazol-4-karboksamidhydroklorid;
N-(5-(azetidin-1-yl)-2-morfolinotiazolo[4,5-b]pyridin-6-yl)-2-(2-metylpyridin-4-yl)oksazol-4-karboksamid;
(R)-N-(5-(3-hydroxypiperidin-1-yl)-2-morfolinotiazolo[4,5-b]pyridin-6-yl)-2-(2-metylpyridin-4-yl)oksazol-4-karboksamid;
(R)-N-(5-(3-hydroxypiperidin-1-yl)-2-morfolinotiazolo[4,5-b]pyridin-6-yl)-5-(2-metylpyridin-4-yl)furan-2-karboksamid;
(S)-6-(1-(2-hydroksypropyl)-1H-pyrazol-4-yl)-N-(2-morfolino-5-(piperidin-1-yl)tiazolo[4,5-b]pyridin-6-yl)pikolinamid
N-(5-(4-fluorpiperidin-1-yl)-2-morfolinotiazolo[4,5-b]pyridin-6-yl)-5-(2-metylpyridin-4-yl)furan-2-karboksamid
N-(5-(4-fluorpiperidin-1-yl)-2-morfolinotiazolo[4,5-b]pyridin-6-yl)-2-(2-metylpyridin-4-yl)oksazol-4-karboksamidhydroklorid

N-(5-(1-metyl-1H-pyrazol-4-yl)-2-morfolinotiazolo[4,5-b]pyridin-6-yl)-2-(2-metylpyridin-4-yl)oksazol-4-karboksamid;
N-(5-(3-fluorfenyl)-2-morfolinotiazolo[4,5-b]pyridin-6-yl)-2-(2-metylpyridin-4-yl)oksazol-4-karboksamid;
N-(5-(4-hidroksypiperidin-1-yl)-2-morfolinotiazolo[4,5-b]pyridin-6-yl)-5-(2-metylpyridin-4-yl)furan-2-karboksamid;
N-(5-(3-fluorpiperidin-1-yl)-2-morfolinotiazolo[4,5-b]pyridin-6-yl)-5-(2-metylpyridin-4-yl)furan-2-karboksamid;
(S)-N-(5-(3-hidroksypyrrolidin-1-yl)-2-morfolinooksazolo[4,5-b]pyridin-6-yl)-2-(6-metoksypyridin-3-yl)oksazol-4-karboksamid;
N-(5-(3-hidroksypyrrolidin-1-yl)-2-morfolinooksazolo[4,5-b]pyridin-6-yl)-2-(2-metylpyridin-4-yl)oksazol-4-karboksamid;
(R)-N-(5-(3-hidroksypyrrolidin-1-yl)-2-morfolinooksazolo[4,5-b]pyridin-6-yl)-2-(6-metoksypyridin-3-yl)oksazol-4-karboksamid;
N-(5-(3-hidroksypyrrolidin-1-yl)-2-morfolinooksazolo[4,5-b]pyridin-6-yl)-2-(6-metoksypyridin-3-yl)oksazol-4-karboksamid;
(S)-N-(5-(3-hidroksypyrrolidin-1-yl)-2-morfolinooksazolo[4,5-b]pyridin-6-yl)-5-(2-metylpyridin-4-yl)furan-2-karboksamid;
(S)-N-(5-(3-hidroksypyrrolidin-1-yl)-2-morfolinooksazolo[4,5-b]pyridin-6-yl)-5-(2-metylpyridin-4-yl)tiofen-2-karboksamid;
N-(5-(azetidin-1-yl)-2-(piperidin-1-yl)oksazolo[4,5-b]pyridin-6-yl)-2-(2-metylpyridin-4-yl)oksazol-4-karboksamid;
2-(2-metylpyridin-4-yl)-N-(2-(piperidin-1-yl)-5-(pyrrolidin-1-yl)oksazolo[4,5-b]pyridin-6-yl)oksazol-4-karboksamid;
5-(2-metylpyridin-4-yl)-N-(2-morfolino-5-(piperidin-1-yl)oksazolo[4,5-b]pyridin-6-yl)furan-2-karboksamid;

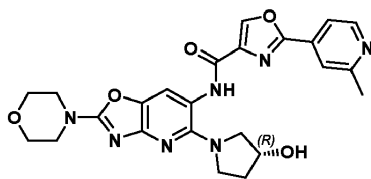
N-(5-(azetidin-1-yl)-2-morfolinooksazolo[4,5-b]pyridin-6-yl)-2-(2-metylpýridin-4-yl)oksazol-4-karboksamid;
2-(2-metylpýridin-4-yl)-N-(2-morfolino-5-(pyrrolidin-1-yl)oksazolo[4,5-b]pyridin-6-yl)oksazol-4-karboksamid;
N-(5-(4-hydroksypiperidin-1-yl)-2-morfolinooksazolo[4,5-b]pyridin-6-yl)-5-(2-metylpýridin-4-yl)furan-2-karboksamid;
(R)-N-(5-(3-hydroksypiperidin-1-yl)-2-morfolinooksazolo[4,5-b]pyridin-6-yl)-5-(2-metylpýridin-4-yl)furan-2-karboksamid;
N-(5-(furan-3-yl)-2-morfolinooksazolo[4,5-b]pyridin-6-yl)-2-(2-metylpýridin-4-yl)oksazol-4-karboksamid;
N-(5-(3-fluorpiperidin-1-yl)-2-morfolinooksazolo[4,5-b]pyridin-6-yl)-2-(2-metylpýridin-4-yl)oksazol-4-karboksamid;
N-(5-(4-hydroksypiperidin-1-yl)-2-morfolinooksazolo[4,5-b]pyridin-6-yl)-2-(2-metylpýridin-4-yl)oksazol-4-karboksamid;
N-(5-(4-fluorpiperidin-1-yl)-2-morfolinooksazolo[4,5-b]pyridin-6-yl)-2-(2-metylpýridin-4-yl)oksazol-4-karboksamid;
(S)-N-(5-(3-aminopiperidin-1-yl)-2-morfolinotiazolo[4,5-b]pyridin-6-yl)-2-(2-metylpýridin-4-yl)oksazol-4-karboksamid;
2-(2-metylpýridin-4-yl)-N-(2-morfolino-5-(1H-pyrazol-4-yl)tiazolo[4,5-b]pyridin-6-yl)oksazol-4-karboksamid;
N-(5-(6-fluorpyridin-3-yl)-2-morfolinotiazolo[4,5-b]pyridin-6-yl)-2-(2-metylpýridin-4-yl)oksazol-4-karboksamid;
N-(5-(3-hydroksy-8-azabisyklo[3.2.1]oktan-8-yl)-2-morfolinotiazolo[4,5-b]pyridin-6-yl)-2-(2-metylpýridin-4-yl)oksazol-4-karboksamid;
N-(2-(3-hydroksypiperidin-1-yl)-5-(piperidin-1-yl)tiazolo[4,5-b]pyridin-6-yl)-2-(2-metylpýridin-4-yl)oksazol-4-karboksamid;



2-(2-acetamidopyridin-4-yl)-N-(5-(4-hydroksypiperidin-1-yl)-2-morfolinotiazolo[4,5-b]pyridin-6-yl)oksazol-4-karboksamid;
N-(2-(3-hydroksypiperidin-1-yl)-5-(4-hydroksypiperidin-1-yl)tiazolo[4,5-b]pyridin-6-yl)-2-(2-metylpyridin-4-yl)oksazol-4-karboksamid;
2-(2-acetamidopyridin-4-yl)-N-(5-(3-hydroksypiperidin-1-yl)-2-morfolinotiazolo[4,5-b]pyridin-6-yl)oksazol-4-karboksamid;
2-(2-aminopyridin-4-yl)-N-(5-(3-hydroksypiperidin-1-yl)-2-morfolinotiazolo[4,5-b]pyridin-6-yl)oksazol-4-karboksamidhydroklorid;
5-(2-aminopyridin-4-yl)-N-(5-(4-hydroksypiperidin-1-yl)-2-morfolinotiazolo[4,5-b]pyridin-6-yl)furan-3-karboksamidhydroklorid;
2-(2-aminopyridin-4-yl)-N-(5-(4-hydroksypiperidin-1-yl)-2-morfolinotiazolo[4,5-b]pyridin-6-yl)oksazol-4-karboksamidhydroklorid;
2-(2-aminopyridin-4-yl)-N-(5-(4-fluoropiperidin-1-yl)-2-morfolinotiazolo[4,5-b]pyridin-6-yl)oksazol-4-karboksamidhydroklorid;
N-(5-(2-fluorpyridin-4-yl)-2-morfolinotiazolo[4,5-b]pyridin-6-yl)-2-(2-metylpyridin-4-yl)oksazol-4-karboksamid;
N-(5-(4-fluoropiperidin-1-yl)-2-(3-hydroksypiperidin-1-yl)tiazolo[4,5-b]pyridin-6-yl)-2-(2-metylpyridin-4-yl)oksazol-4-karboksamid;
N-(5-(4-aminopiperidin-1-yl)-2-(3-hydroksypiperidin-1-yl)tiazolo[4,5-b]pyridin-6-yl)-2-(2-metylpyridin-4-yl)oksazol-4-karboksamidhydroklorid; og
N-(5-(2-hydroksypyridin-4-yl)-2-morfolinotiazolo[4,5-b]pyridin-6-yl)-2-(2-metylpyridin-4-yl)oksazol-4-karboksamidhydroklorid;

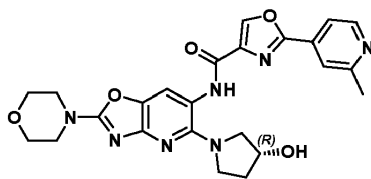
eller et farmasøytisk akseptabelt salt derav.

16. Forbindelse for anvendelse ifølge krav 1, hvori forbindelsen er

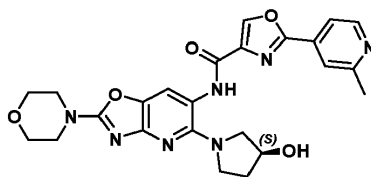


eller et farmasøytisk akseptabelt salt derav.

5 17. Forbindelse for anvendelse ifølge krav 1, hvori forbindelsen er



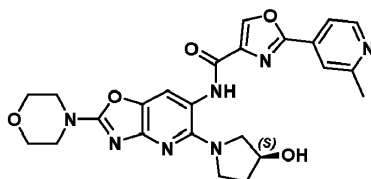
18. Forbindelse for anvendelse ifølge krav 1, hvori forbindelsen er



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eller et farmasøytisk akseptabelt salt derav.

19. Forbindelse for anvendelse ifølge krav 1, hvori forbindelsen er



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20. Forbindelse for anvendelse ifølge et hvilket som helst av de foregående kravene, hvori AML er **karakterisert** av en mutasjon i et FLT3-gen.

**21.** Forbindelsen for anvendelse ifølge krav 20, hvori mutasjonen er en intern tandem duplisering (ITD).

**22.** Forbindelsen for anvendelse ifølge krav 20, hvori mutasjonen er en D835H-, D835V-,  
5 D835Y-, K663Q-, N841L- eller F691L-mutasjon.

**23.** Forbindelsen for anvendelse ifølge krav 20, hvori mutasjonen er en D835Y-mutasjon.