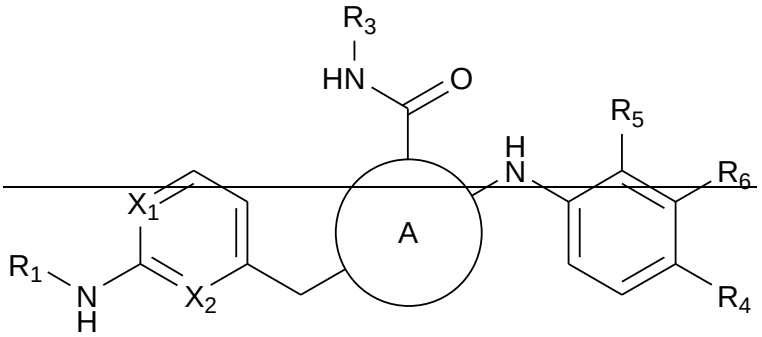
CLAIMS

~~1. A compound represented by general formula (1) below or a pharmaceutically acceptable salt thereof, or a pharmaceutically acceptable solvate of said compound or salt:~~

~~[Chemical Formula 1]~~

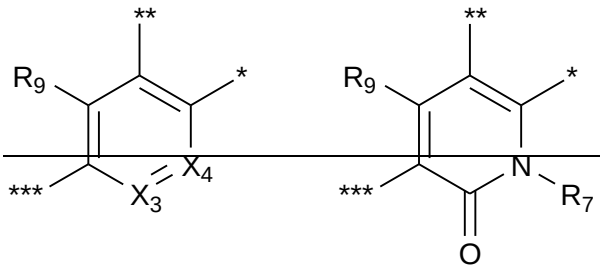


(1)

~~wherein:~~

~~ring A is a group represented by general formula (2) or (4) below (where the bonds denoted by *, ** and *** are bonded to −NH−, −CONH− and $-CH_2-$, respectively):~~

~~[Chemical Formula 2]~~



(2) (4)

~~X_1, X_2, X_3 and X_4 are each independently $-CR_2-$ or −N−;~~

~~R_2 is a hydrogen atom, a halogen atom, or a C1-6 alkyl group;~~

~~R_1 is $-S(=O)_2-NH-R_8$ or $-S(=O)_2-R_8$;~~

~~R_8 is a hydrogen atom, a C1-6 alkyl group (the C1-6 alkyl group~~

~~being optionally substituted with a halogen atom, a hydroxy group or a C1-6 alkoxy group), or a monocyclic C3-6 cycloalkyl group (the C3-6 cycloalkyl group being optionally substituted with a C1-6 alkyl group);~~

~~R_3 is a hydrogen atom, a C1-6 alkyl group, a C3-6 cycloalkyl group, or a C1-6 alkoxy group (the C1-6 alkoxy group being optionally substituted with a hydroxy group);~~

~~R_5 is a halogen atom or a C1-6 alkyl group;~~

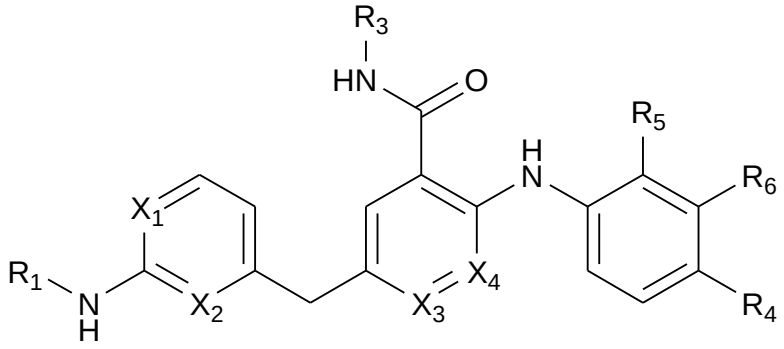
~~R_6 is a hydrogen atom, a halogen atom or a C1-6 alkyl group and R_4 is a halogen atom or a cyclopropyl group;~~

~~R_7 is a hydrogen atom or a methyl group; and~~

~~R_9 is a hydrogen atom, a halogen atom, or a C1-6 alkyl group.~~

~~2~~1. ~~The compound, salt or solvate according to claim 1, wherein the compound represented by general formula (1) is a~~ A compound represented by general formula (6) below or a pharmaceutically acceptable salt thereof, or a pharmaceutically acceptable solvate of said compound or salt:

~~[Chemical Formula 3]~~



(6)

wherein:

X_1, X_2, X_3 and X_4 are each independently $-CR_2=$ or $-N=$;

R_2 is a hydrogen atom, a halogen atom, or a C1-6 alkyl group;

R_1 is $-S(=O)_2-NH-R_8$ or $-S(=O)_2-R_8$;

R_8 is a hydrogen atom, a C1-6 alkyl group ~~(the C1-6 alkyl group being optionally substituted with a halogen atom, a hydroxy group or a C1-6 alkoxy group)~~, or a monocyclic C3-6 cycloalkyl group, the C1-6 alkyl group being optionally substituted with a halogen atom, a hydroxy group or a C1-6 alkoxy group, and ~~(~~the C3-6 cycloalkyl group being optionally substituted with a C1-6 alkyl group~~)~~;

R_3 is a hydrogen atom, a C1-6 alkyl group, a C3-6 cycloalkyl group, or a C1-6 alkoxy group, ~~(~~the C1-6 alkoxy group being optionally substituted with a hydroxy group~~)~~;

R_5 is a halogen atom or a C1-6 alkyl group; and

R_6 is a hydrogen atom, a halogen atom or a C1-6 alkyl group and R_4 is a halogen atom or a cyclopropyl group.

~~3~~2. The compound, salt or solvate according to claim 1 ~~or 2~~, wherein:

R_2 is a hydrogen atom or a halogen atom;

R_8 is a C1-6 alkyl group ~~(the C1-6 alkyl group being optionally substituted with a halogen atom or a C1-6 alkoxy group)~~ or a monocyclic C3-6 cycloalkyl group, the C1-6 alkyl group being optionally substituted with a halogen atom or a C1-6 alkoxy group, and ~~(~~the C3-6 cycloalkyl group being optionally substituted with a C1-6 alkyl group~~)~~;

R_3 is a hydrogen atom, a C1-6 alkyl group, a C3-6 cycloalkyl

group, or a C1-6 alkoxy group, (the C1-6 alkoxy group being optionally substituted with a hydroxy group);

R_5 is a halogen atom; and

R_6 is a hydrogen atom and R_4 is a halogen atom or a cyclopropyl group.

43. The compound, salt or solvate according to claim 1 or 2, wherein:

R_2 is a hydrogen atom or a fluorine atom;

R_8 is a C1-4 alkyl group (the C1-4 alkyl group being optionally substituted with a fluorine atom or a C1-4 alkoxy group) or a cyclopropyl group, the C1-4 alkyl group being optionally substituted with a fluorine atom or a C1-4 alkoxy group, and (the cyclopropyl group being optionally substituted with a C1-4 alkyl group);

R_3 is a hydrogen atom, a C1-4 alkyl group, a cyclopropyl group, or a C1-4 alkoxy group, (the C1-4 alkoxy group being optionally substituted with a hydroxy group);

R_5 is a fluorine atom; and

R_6 is a hydrogen atom and R_4 is an iodine atom or a cyclopropyl group.

54. The compound, salt or solvate according to claim 1 or 2, wherein:

R_2 is a fluorine atom;

R_1 is $-S(=O)_2-NH-R_8$;

R_8 is a C1-4 alkyl group;

R_3 is a hydrogen atom or a cyclopropyl group;

R_5 is a fluorine atom; and

R_6 is a hydrogen atom and R_4 is an iodine atom or a cyclopropyl group.

~~6~~5. A compound or a pharmaceutically acceptable salt thereof, or a pharmaceutically acceptable solvate of said compound or salt, said compound being selected from among:

N-cyclopropyl-3,4-difluoro-2-(2-fluoro-4-iodoanilino)-5-[[3-fluoro-2-(methylsulfamoylamino)pyridin-4-yl]methyl]benzamide,

~~2-(2-fluoro-4-iodoanilino)-5-[[3-fluoro-2-(methylsulfamoylamino)pyridin-4-yl]methyl]-1-methyl-6-oxopyridine-3-carboxamide,~~

2-(4-cyclopropyl-2-fluoroanilino)-3,4-difluoro-5-[[3-fluoro-2-(methylsulfamoylamino)pyridin-4-yl]methyl]benzamide,

N-cyclopropyl-5-[[2-(ethylsulfamoylamino)-3-fluoropyridin-4-yl]methyl]-3,4-difluoro-2-(2-fluoro-4-iodoanilino)benzamide,

N-cyclopropyl-3,4-difluoro-5-[[3-fluoro-2-(2-fluoroethylsulfamoylamino)pyridin-4-yl]methyl]-2-(2-fluoro-4-iodoanilino)benzamide,

3,4-difluoro-2-(2-fluoro-4-iodoanilino)-5-[[3-fluoro-2-(methylsulfamoylamino)pyridin-4-yl]methyl]-N-[(2-methylpropan-2-yl)oxy]benzamide,

3,4-difluoro-2-(2-fluoro-4-iodoanilino)-5-[[3-fluoro-2-(methylsulfamoylamino)pyridin-4-yl]methyl]-N-methoxybenzamide,

3,4-difluoro-2-(2-fluoro-4-iodoanilino)-5-[[3-fluoro-2-(methylsulfamoylamino)pyridin-4-yl]methyl]benzamide,

5-[[2-(cyclopropylsulfamoylamino)-3-fluoropyridin-4-yl]methyl

]-3,4-difluoro-2-(2-fluoro-4-iodoanilino)benzamide,

3,4-difluoro-2-(2-fluoro-4-iodoanilino)-5-[[3-fluoro-2-(propan-2-ylsulfamoylamino)pyridin-4-yl]methyl]benzamide,

3,4-difluoro-2-(2-fluoro-4-iodoanilino)-5-[[3-fluoro-2-(2-methoxyethylsulfamoylamino)pyridin-4-yl]methyl]benzamide,

3,4-difluoro-2-(2-fluoro-4-iodoanilino)-5-[[3-fluoro-2-(2-methylpropylsulfamoylamino)pyridin-4-yl]methyl]benzamide,

3,4-difluoro-2-(2-fluoro-4-iodoanilino)-5-[[3-fluoro-2-[(1-methylcyclobutyl)sulfamoylamino]pyridin-4-yl]methyl]benzamide,

3,4-difluoro-2-(2-fluoro-4-iodoanilino)-5-[[3-fluoro-2-(propylsulfamoylamino)pyridin-4-yl]methyl]benzamide,

3,4-difluoro-2-(2-fluoro-4-iodoanilino)-5-[[3-fluoro-2-(methylsulfamoylamino)pyridin-4-yl]methyl]-N-(2-hydroxyethoxy)benzamide,

5-[[3-(ethylsulfonylamino)-2-fluorophenyl]methyl]-3,4-difluoro-2-(2-fluoro-4-iodoanilino)benzamide,

5-[[3-(ethylsulfonylamino)-2-fluorophenyl]methyl]-3,4-difluoro-2-(2-fluoro-4-iodoanilino)-N-methoxybenzamide,

3,4-difluoro-2-(2-fluoro-4-iodoanilino)-5-[[2-fluoro-3-(methylsulfamoylamino)phenyl]methyl]benzamide,

3,4-difluoro-2-(2-fluoro-4-iodoanilino)-5-[[2-fluoro-3-(methanesulfonamide)phenyl]methyl]benzamide,

4-fluoro-2-(2-fluoro-4-iodoanilino)-5-[[3-fluoro-2-(methylsulfamoylamino)pyridin-4-yl]methyl]benzamide,

~~N-cyclopropyl-2-(2-fluoro-4-iodoanilino)-5-[[3-fluoro-2-(methylsulfamoylamino)pyridin-4-yl]methyl]-1-methyl-6-oxopyridine-3-carboxamide,~~

3,4-difluoro-2-(2-fluoro-4-iodoanilino)-5-[[3-fluoro-2-[(1-methylcyclobutyl)sulfamoylamino]pyridin-4-yl]methyl]-N-methoxybenzamide,

3,4-difluoro-5-[[3-fluoro-2-(methylsulfamoylamino)pyridin-4-yl]methyl]-2-(2-fluoro-4-methylsulfanylanilino)benzamide,

2-(4-ethynyl-2-fluoroanilino)-3,4-difluoro-5-[[3-fluoro-2-(propylsulfamoylamino)pyridin-4-yl]methyl]benzamide,

2-(4-bromo-2-fluoroanilino)-3,4-difluoro-5-[[3-fluoro-2-(methylsulfamoylamino)pyridin-4-yl]methyl]benzamide,

2-(2-chloro-4-iodoanilino)-5-[[3-(ethylsulfonylamino)-2-fluorophenyl]methyl]-3,4-difluoro-N-methoxybenzamide,

3,4-difluoro-2-(2-fluoro-4-iodoanilino)-5-[[2-fluoro-3-(oxan-4-ylsulfonylamino)phenyl]methyl]benzamide,

2-[4-(difluoromethylsulfanyl)-2-fluoroanilino]-3,4-difluoro-5-[[3-fluoro-2-(methylsulfamoylamino)pyridin-4-yl]methyl]benzamide,

3,4-difluoro-2-[(4-fluoro-1-benzothiophen-5-yl)amino]-5-[[3-fluoro-2-(methylsulfamoylamino)pyridin-4-yl]methyl]benzamide, and

~~3,4-difluoro-2-(2-fluoro-4-iodoanilino)-5-[3-fluoro-2-(methylsulfamoylamino)pyridin-4-yl]oxybenzamide,~~

~~2-(2-fluoro-4-iodoanilino)-5-[[3-fluoro-2-(methylsulfamoylamino)pyridin-4-yl]methyl]-N-methoxy-1-methyl-6-oxopyridine-3-carboxamide,~~

~~2-(2-fluoro-4-iodoanilino)-5-[[3-fluoro-2-(methylsulfamoylamino)pyridin-4-yl]methyl]-1-methyl-N-[(2-methylpropan-2-yl)oxy]-6-oxopyridine-3-carboxamide,~~

~~5-[[2-(ethylsulfamoylamino)-3-fluoropyridin-4-yl]methyl]-2-(2-~~

~~fluoro-4-iodoanilino)-1-methyl-6-oxopyridine-3-carboxamide,~~

5-(2-fluoro-4-iodoanilino)-2-[[3-fluoro-2-(methylsulfamoylamino)pyridin-4-yl]methyl]pyridine-4-carboxamide~~,~~

~~5-(2-fluoro-4-iodoanilino)-8-[[3-fluoro-2-(methylsulfamoylamino)pyridin-4-yl]methyl]imidazo[1,5-a]pyridine-6-carboxamide,~~

~~5-fluoro-4-(2-fluoro-4-iodoanilino)-1-[[3-fluoro-2-(methylsulfamoylamino)pyridin-4-yl]methyl]-6-oxopyridine-3-carboxamide,~~

~~5-fluoro-4-(2-fluoro-4-iodoanilino)-1-[[3-fluoro-2-(propylsulfamoylamino)pyridin-4-yl]methyl]-6-oxopyridine-3-carboxamide,~~

~~4-(2-fluoro-4-iodoanilino)-1-[[3-fluoro-2-(methylsulfamoylamino)pyridin-4-yl]methyl]-5-methyl-6-oxopyridine-3-carboxamide, and~~

~~1-[[2-(ethylsulfonylamino)-3-fluoropyridin-4-yl]methyl]-4-(2-fluoro-4-iodoanilino)-5-methyl-6-oxopyridine-3-carboxamide~~.

~~7~~6. A compound or a pharmaceutically acceptable salt thereof, or a pharmaceutically acceptable solvate of said compound or salt, said compound being selected from among:

N-cyclopropyl-3,4-difluoro-2-(2-fluoro-4-iodoanilino)-5-[[3-fluoro-2-(methylsulfamoylamino)pyridin-4-yl]methyl]benzamide,

~~2-(2-fluoro-4-iodoanilino)-5-[[3-fluoro-2-(methylsulfamoylamino)pyridin-4-yl]methyl]-1-methyl-6-oxopyridine-3-carboxamide,~~

2-(4-cyclopropyl-2-fluoroanilino)-3,4-difluoro-5-[[3-fluoro-2-(methylsulfamoylamino)pyridin-4-yl]methyl]benzamide,

N-cyclopropyl-5-[[2-(ethylsulfamoylamino)-3-fluoropyridin-4-yl]methyl]-3,4-difluoro-2-(2-fluoro-4-iodoanilino)benzamide,

N-cyclopropyl-3,4-difluoro-5-[[3-fluoro-2-(2-fluoroethylsulfam

oylamino)pyridin-4-yl]methyl]-2-(2-fluoro-4-iodoanilino)benzamide,

3,4-difluoro-2-(2-fluoro-4-iodoanilino)-5-[[3-fluoro-2-(methylsulfamoylamino)pyridin-4-yl]methyl]-N-[(2-methylpropan-2-yl)oxy]benzamide,

3,4-difluoro-2-(2-fluoro-4-iodoanilino)-5-[[3-fluoro-2-(methylsulfamoylamino)pyridin-4-yl]methyl]-N-methoxybenzamide,

3,4-difluoro-2-(2-fluoro-4-iodoanilino)-5-[[3-fluoro-2-(methylsulfamoylamino)pyridin-4-yl]methyl]benzamide,

5-[[2-(cyclopropylsulfamoylamino)-3-fluoropyridin-4-yl]methyl]-3,4-difluoro-2-(2-fluoro-4-iodoanilino)benzamide,

3,4-difluoro-2-(2-fluoro-4-iodoanilino)-5-[[3-fluoro-2-(propan-2-ylsulfamoylamino)pyridin-4-yl]methyl]benzamide,

3,4-difluoro-2-(2-fluoro-4-iodoanilino)-5-[[3-fluoro-2-(2-methoxyethylsulfamoylamino)pyridin-4-yl]methyl]benzamide,

3,4-difluoro-2-(2-fluoro-4-iodoanilino)-5-[[3-fluoro-2-(2-methylpropylsulfamoylamino)pyridin-4-yl]methyl]benzamide,

3,4-difluoro-2-(2-fluoro-4-iodoanilino)-5-[[3-fluoro-2-[(1-methylcyclobutyl)sulfamoylamino]pyridin-4-yl]methyl]benzamide,

3,4-difluoro-2-(2-fluoro-4-iodoanilino)-5-[[3-fluoro-2-(propylsulfamoylamino)pyridin-4-yl]methyl]benzamide,

3,4-difluoro-2-(2-fluoro-4-iodoanilino)-5-[[3-fluoro-2-(methylsulfamoylamino)pyridin-4-yl]methyl]-N-(2-hydroxyethoxy)benzamide,

5-[[3-(ethylsulfonylamino)-2-fluorophenyl]methyl]-3,4-difluoro-2-(2-fluoro-4-iodoanilino)benzamide,

5-[[3-(ethylsulfonylamino)-2-fluorophenyl]methyl]-3,4-difluoro-2-(2-fluoro-4-iodoanilino)-N-methoxybenzamide,

3,4-difluoro-2-(2-fluoro-4-iodoanilino)-5-[[2-fluoro-3-(methylsulfamoylamino)phenyl]methyl]benzamide,

3,4-difluoro-2-(2-fluoro-4-iodoanilino)-5-[[2-fluoro-3-(methanesulfonamide)phenyl]methyl]benzamide, and

4-fluoro-2-(2-fluoro-4-iodoanilino)-5-[[3-fluoro-2-(methylsulfamoylamino)pyridin-4-yl]methyl]benzamide~~, and~~

~~N-cyclopropyl-2-(2-fluoro-4-iodoanilino)-5-[[3-fluoro-2-(methylsulfamoylamino)pyridin-4-yl]methyl]-1-methyl-6-oxopyridine-3-carboxamide~~.

~~8~~7. A compound or a pharmaceutically acceptable salt thereof, or a pharmaceutically acceptable solvate of said compound or salt, said compound being selected from among:

N-cyclopropyl-3,4-difluoro-2-(2-fluoro-4-iodoanilino)-5-[[3-fluoro-2-(methylsulfamoylamino)pyridin-4-yl]methyl]benzamide, and

~~2-(2-fluoro-4-iodoanilino)-5-[[3-fluoro-2-(methylsulfamoylamino)pyridin-4-yl]methyl]-1-methyl-6-oxopyridine-3-carboxamide, and~~

2-(4-cyclopropyl-2-fluoroanilino)-3,4-difluoro-5-[[3-fluoro-2-(methylsulfamoylamino)pyridin-4-yl]methyl]benzamide.

~~9~~8.

2-(4-Cyclopropyl-2-fluoroanilino)-3,4-difluoro-5-[[3-fluoro-2-(methylsulfamoylamino)pyridin-4-yl]methyl]benzamide or a pharmaceutically acceptable salt thereof, or a pharmaceutically acceptable solvate of said compound or salt.

~~10~~9.

2-(4-Cyclopropyl-2-fluoroanilino)-3,4-difluoro-5-[[3-fluoro-2-(methylsulfamoylamino)pyridin-4-yl]methyl]benzamide or a sodium salt thereof, or a pharmaceutically acceptable solvate of said compound or salt.

~~11~~10.

2-(4-Cyclopropyl-2-fluoroanilino)-3,4-difluoro-5-[[3-fluoro-2-(methylsulfamoylamino)pyridin-4-yl]methyl]benzamide or a pharmaceutically acceptable salt thereof.

~~12~~11.

2-(4-Cyclopropyl-2-fluoroanilino)-3,4-difluoro-5-[[3-fluoro-2-(methylsulfamoylamino)pyridin-4-yl]methyl]benzamide or a sodium salt thereof.

~~13~~12. A sodium salt of 2-(4-cyclopropyl-2-fluoroanilino)-3,4-difluoro-5-[[3-fluoro-2-(methylsulfamoylamino)pyridin-4-yl]methyl]benzamide.

~~14~~13. A pharmaceutical composition comprising a compound, salt or solvate according to any one of claims 1 to ~~13~~12 as an active ingredient.