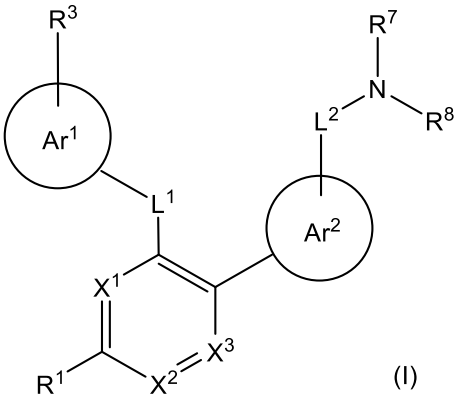
[CLAIMS]

[Claim 1]

A compound represented by the formula (I) or a pharmaceutically acceptable salt thereof.

[Chem. 1]



(I)

[wherein,

X^1, X^2, and X^3 are independently CH, N, or CY;

At least one of X^1, X^2, and X^3 is CH or CY;

Y is a halogen atom, or a $C_{1\text{-}3}$ alkyl group optionally substituted with 1 to 3 halogen atoms;

R^1 is a cyano group, a fluorine atom, or a chlorine atom;

L^1 is -O-, -S-, -SO-, -$CH(R^{11})$-, -$C(=CH_2)$-, -CO-, 1,1-cyclopropylidene group, or -NR^{12}-;

R^{11} is a hydrogen atom, a hydroxy group, a $C_{1\text{-}3}$ alkyl group optionally substituted with 1 to 3 halogen atoms, or a $C_{1\text{-}3}$ alkoxy group optionally substituted with 1 to 2 cyano groups;

R^{12} is a hydrogen atom, or a $C_{1\text{-}3}$ alkyl group optionally substituted with 1 to 3 halogen atoms;

Ar^1 is a nitrogen-containing heteroaryl ring optionally substituted with 1 to 3 R^2;

R^2 is independently a halogen atom, a cyano group, or a C_{1-4} alkyl group optionally substituted with 1 to 3 halogen atoms;

R^3 is a hydrogen atom, a halogen atom, an amino group, a cyano group, a carboxy group, a (C_{1-3} alkylcarbonyl)amino group, a (C_{1-6} alkylamino)carbonyl group, a di(C_{1-3} alkyl)aminocarbonyl group, a (C_{1-3} alkoxy)carbonyl group, a (C_{3-8} cycloalkyl)amino group, a (C_{3-8} heterocycloalkyl)amino group, a C_{3-8} cycloalkyl group, a 3- to 8-membered heterocycloalkyloxy group, a C_{3-8} cycloalkyloxy group optionally substituted with 1 to 6 R^{31}, a C_{1-6} alkyl group optionally substituted with 1 to 6 R^{31}, a C_{1-6} alkoxy group optionally substituted with 1 to 6 R^{31}, a di(C_{1-6} alkyl)amino group optionally substituted with 1 to 6 R^{31}, a (C_{1-6} alkyl)amino group optionally substituted with 1 to 6 R^{31}, a 3- to 8-membered heterocycloalkyl group optionally substituted with 1 to 4 R^{32}, an aryl group optionally substituted with 1 to 4 R^{32}, or a heteroaryl group optionally substituted with 1 to 4 R^{32};

R^{31} is independently a halogen atom, a hydroxy group, a cyclopropylidene group, a C_{3-8} cycloalkyl group optionally substituted with 1 to 3 halogen atoms, a 3- to 8-membered heterocycloalkyl group, an oxetanylidene group, a C_{1-4} alkoxy group, or a 3- to 8-membered cycloalkyloxy group;

R^{32} is independently a halogen atom, a hydroxy group, an acetylamino group, a C_{1-3} alkyl group optionally substituted with 1 to 3 halogen atoms, a C_{1-3} alkoxy group optionally substituted with 1 to 3 halogen atoms, an oxo group, a cyano group, a carboxy group, a (C_{1-3} alkoxy)carbonyl group, a (C_{1-3} alkyl)sulfonyl group, a carboxamide group, or a benzyloxy group;

when R^2 and R^3 are bonded to atoms adjacent to each other on Ar^1, R^2 and R^3 may be bonded via a single bond or -O- to form a 5- to 7-membered ring together with the atoms of Ar^1 to which they are bonded;

Ar^2 is an aryl ring optionally substituted with 1 to 4 R^4, or a heteroaryl ring optionally substituted with 1 to 4 R^4;

R^4 is independently a halogen atom, a hydroxy group, a carboxy group, a cyano group, a cyanomethyl group, an amino group, a di(C_{1-3} alkyl)amino group, a C_{1-3} alkyl group optionally substituted with 1 to 3 halogen atoms, or C_{1-3} alkoxy group;

L^2 is a single bond, a C_{1-6} alkylene group optionally substituted with 1 to 3 R^{21}, a C_{3-8} cycloalkylene group optionally substituted with 1 to 3 R^{21}, or a 4- to 8-membered heterocycloalkylene group optionally substituted with 1 to 3 R^{21};

L^2 may be bonded at any position to Ar^2 or $-NR^7R^8$ which is located at either end thereof;

One sp^3 carbon atom at any position of L^2 may be replaced by a structure of -O- or $-NR^{22}$-;

R^{21} is independently a halogen atom, a hydroxy group, an oxo group, a cyano group, a 1,1-cyclopropylidene group, an oxetanylidene group, a carboxy group, a carboxamide group, a C_{1-6} alkyl group optionally substituted with 1 to 3 halogen atoms, a C_{3-8} cycloalkyl group, a C_{1-6} alkoxy group, a (C_{1-3} alkoxy)C_{1-3} alkyl group, a (C_{1-3} alkoxy) C_{1-3} alkoxy group, a (hydroxy) C_{1-6} alkyl group, a (carboxy)C_{1-3} alkyl group, a (carboxy)C_{1-3} alkoxy group, a (C_{1-3} alkoxy)carbonyl group, a (C_{1-3} alkoxycarbonyl)C_{1-3} alkyl group, a (C_{1-6} alkylamino)carbonyl group, a di(C_{1-3} alkyl) aminocarbonyl group, a phenyl group optionally substituted with 1 to 3 halogen atoms, a heteroaryl group optionally substituted with 1 to 3 halogen atoms, or a phenoxy group optionally

substituted with 1 to 3 halogen atoms;

R^{22} is a hydrogen atom or a C_{1-3} alkyl group;

L^2 and R^7 may be bonded via a single bond, -O-, $-S(=O)_n-$, or $-NR^{23}-$, to form a 4- to 8-membered ring containing a nitrogen atom to which L^2 and R^7 are bonded, and the ring is optionally substituted with 1 to 3 halogen atoms or 1 to 2 hydroxy groups;

n represents an integer from 0 to 2;

R^{23} is a hydrogen atom or a C_{1-3} alkyl group;

when L^2 and R^4 are bonded to atoms adjacent to each other on Ar^2, they may be bonded via a single-bond or -O- to form a 5- to 8-membered ring together with the atoms of Ar^2 to which they are bonded;

R^7 is a hydrogen atom, or C_{1-3} alkyl group;

R^7 and an atom of Ar^2 may be bonded via a single bond to form a 5- to 8-membered ring;

R^8 is a hydrogen atom, a C_{1-6} alkyl group, an adamantyl group, a C_{1-6} cycloalkyl group, a cyanomethyl group, an oxetanyl group, a (C_{1-3} alkylamino)carbonylmethyl group, a di(C_{1-3} alkyl)aminocarbonylmethyl group, a (C_{1-3} alkylamino)C_{1-8} alkyl group, a di(C_{1-3} alkyl)aminoC_{1-8} alkyl group, a (hydroxy)C_{1-8} alkyl group, a (carboxy)C_{1-3} alkyl group, a (C_{1-3} alkoxycarbonyl)C_{1-3} alkyl group, or a (C_{1-3} alkoxy)C_{1-3} alkyl group;

R^7 and R^8 may be bonded each other via a single bond, -O-, $-S(=O)_m-$, or $-NR^{41}-$ to form a 3- to 8-membered ring, and further, the ring is optionally substituted with an amino group, an oxo group, or a C_{1-3} alkyl group;

m represents an integer from 0 to 2;

R^{41} is a hydrogen atom or a C_{1-3} alkyl group.]

[Claim 2]

The compound according to claim 1 or a pharmaceutically acceptable salt thereof, wherein X^1, X^2, and X^3 are CH.

[Claim 3]

The compound according to claim 1 or claim 2 or a pharmaceutically acceptable salt thereof, wherein R^1 is a cyano group.

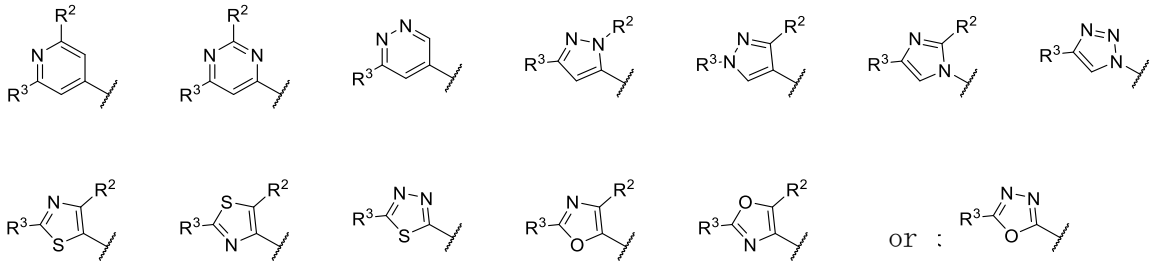
[Claim 4]

The compound according to claim 1 or claim 2 or a pharmaceutically acceptable salt thereof, wherein R^1 is a fluorine atom.

[Claim 5]

The compound according to any one of claims 1 to 4 or a pharmaceutically acceptable salt thereof, wherein the nitrogen-containing heteroaryl ring of Ar^1 is one of the following groups:

[Chem. 2]



[Claim 6]

The compound according to any one of claims 1 to 5 or a pharmaceutically acceptable salt thereof, wherein L^1 is -O-.

[Claim 7]

The compound according to any one of claims 1 to 5 or a pharmaceutically acceptable salt thereof, wherein L^1 is -CO-.

[Claim 8]

The compound according to any one of claims 1 to 5 or a pharmaceutically acceptable salt thereof, wherein L^1 is $-CH_2-$.

[Claim 9]

The compound according to any one of claims 1 to 8 or a pharmaceutically acceptable salt thereof, wherein R^2 is a methyl group.

[Claim 10]

The compound according to any one of claims 1 to 9 or a pharmaceutically acceptable salt thereof, wherein R^3 is a C_{3-8} cycloalkyl group, a 3- to 8-membered heterocycloalkyloxy group, a C_{3-8} cycloalkyloxy group optionally substituted with 1 to 6 R^{31}, a C_{1-6} alkyl group optionally substituted with 1 to 6 R^{31}, a C_{1-6} alkoxy group optionally substituted with 1 to 6 R^{31}, a di(C_{1-6} alkyl)amino group optionally substituted with 1 to 6 R^{31}, a (C_{1-6} alkyl)amino group optionally substituted with 1 to 6 R^{31}, a 3- to 8-membered heterocycloalkyl group optionally substituted with 1 to 4 R^{32}, an aryl group optionally substituted with 1 to 4 R^{32}, or a heteroaryl group optionally substituted with 1 to 4 R^{32}.

[Claim 11]

The compound according to any one of claims 1 to 10 or a pharmaceutically acceptable salt thereof, wherein R^{31} is a halogen atom, a cyclopropylidene group, or a C_{1-4} alkoxy group.

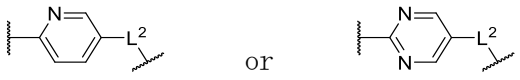
[Claim 12]

The compound according to any one of claims 1 to 11 or a pharmaceutically acceptable salt thereof, wherein R^{32} is a halogen atom, a C_{1-3} alkyl group optionally substituted with 1 to 3 halogen atoms, a C_{1-3} alkoxy group optionally substituted with 1 to 3 halogen atoms, an oxo group or a cyano group.

[Claim 13]

The compound according to any one of claims 1 to 12 or a pharmaceutically acceptable salt thereof, wherein the heteroaryl ring of Ar^2 is

[Chem. 3]



[Claim 14]

The compound according to any one of claims 1 to 13 or a pharmaceutically acceptable salt thereof, wherein L^2 is a C_{1-3} alkylene group optionally substituted with 1 to 2 R^{21}.

[Claim 15]

The compound according to any one of claims 1 to 13 or a pharmaceutically acceptable salt thereof, wherein L^2 is $-CH_2-$.

[Claim 16]

The compound according to any one of claims 1 to 13 or a pharmaceutically acceptable salt thereof, wherein L^2 is $-CH_2CH_2-$.

[Claim 17]

The compound according to any one of claims 1 to 16 or a pharmaceutically acceptable salt thereof, wherein R^7 is a hydrogen atom.

[Claim 18]

The compound according to any one of claims 1 to 17 or a pharmaceutically acceptable salt thereof, wherein R^8 is a hydrogen atom.

[Claim 19]

The compound according to claim 1 or a pharmaceutically acceptable salt

thereof, wherein the compound represented by the formula (I) is selected from the following (1) to (150):

(1) 4-[5-(2-aminoethyl)pyridin-2-yl]-3-(2-methyl-6-morpholin-4-ylpyridin-4-yl)oxybenzonitrile

(2) 4-[5-(2-aminoethyl)pyridin-2-yl]-3-(2-methyl-5-phenylpyrazol-3-yl)oxybenzonitrile

(3) 4-[5-(2-aminoethyl)pyridin-2-yl]-3-(2-methyl-5-pyridin-2-ylpyrazol-3-yl)oxybenzonitrile

(4) 4-[5-(2-aminoethyl)pyridin-2-yl]-3-[2-methyl-5-(5-methylpyridin-2-yl)pyrazol-3-yl]oxybenzonitrile

(5) 4-[5-(2-aminoethyl)pyridin-2-yl]-3-[5-(4-fluorophenyl)-2-methylpyrazol-3-yl]oxybenzonitrile

(6) 4-[5-(2-aminoethyl)pyridin-2-yl]-3-[5-(3-fluorophenyl)-2-methylpyrazol-3-yl]oxybenzonitrile

(7) 4-[5-(2-aminoethyl)pyridin-2-yl]-3-(5-cyclopropyl-2-methylpyrazol-3-yl)oxybenzonitrile

(8) 4-[5-(2-aminoethyl)pyridin-2-yl]-3-[2-methyl-5-(2-methylpropyl)pyrazol-3-yl]oxybenzonitrile

(9) 4-[5-(2-aminoethyl)pyridin-2-yl]-3-(2-methyl-5-propan-2-ylpyrazol-3-yl)oxybenzonitrile

(10) 4-[5-(2-aminoethyl)pyridin-2-yl]-3-(2-methyl-5-propylpyrazol-3-yl)oxybenzonitrile

(11) 4-[5-(2-aminoethyl)pyridin-2-yl]-3-(5-cyclobutyl-2-methylpyrazol-3-yl)oxybenzonitrile

(12) 4-[5-(2-aminoethyl)pyrimidin-2-yl]-3-(2-methyl-6-morpholin-4-ylpyridin-4-yl)oxybenzonitrile

(13) 4-[5-(2-aminoethyl)pyridin-2-yl]-3-(2-methyl-6-pyrrolidin-1-ylpyridin-4-yl)oxybenzonitrile

(14) 4-[5-(2-aminoethyl)pyridin-2-yl]-3-(2-methyl-6-pyridin-2-ylpyridin-4-yl)oxybenzonitrile

(15) 4-[5-(2-aminoethyl)pyrimidin-2-yl]-3-(2-methyl-5-propylpyrazol-3-yl)oxybenzonitrile

(16) 4-[5-(2-aminoethyl)pyrimidin-2-yl]-3-(2-methyl-5-propan-2-ylpyrazol-3-yl)oxybenzonitrile

(17) 4-[5-(2-aminoethyl)pyrimidin-2-yl]-3-(2-methyl-6-pyrrolidin-1-ylpyridin-4-yl)oxybenzonitrile

(18) 4-[5-(2-aminoethyl)pyridin-2-yl]-3-[2-methyl-5-(trifluoromethyl)pyrazol-3-yl]oxybenzonitrile

(19) 4-[5-(2-aminoethyl)pyrimidin-2-yl]-3-(5-cyclobutyl-2-methylpyrazol-3-yl)oxybenzonitrile

(20) 4-[5-(2-aminoethyl)pyrimidin-2-yl]-3-(2-methyl-5-phenylpyrazol-3-yl)oxybenzonitrile

(21) 4-[5-(2-aminoethyl)pyrimidin-2-yl]-3-(2-methyl-6-phenylpyrimidin-4-yl)oxybenzonitrile

(22) 4-[5-(2-aminoethyl)pyrimidin-2-yl]-3-(6-phenylpyridazin-4-yl)oxybenzonitrile

(23) 4-[5-(2-aminoethyl)pyrimidin-2-yl]-3-(2-methyl-5-pyridin-2-ylpyrazol-3-yl)oxybenzonitrile

(24) 4-[5-(2-aminoethyl)pyridin-2-yl]-3-(5-ethyl-2-methylpyrazol-3-yl)oxybenzonitrile

(25) 4-[5-(aminomethyl)pyridin-2-yl]-3-(2-methyl-5-phenylpyrazol-3-yl)oxybenzonitrile

(26) 4-[5-(2-aminoethyl)pyrimidin-2-yl]-3-(5-ethyl-2-methylpyrazol-3-yl)oxybenzonitrile

(27) 4-[5-(2-aminoethyl)pyrimidin-2-yl]-3-[6-(2-cyanophenyl)-2-methylpyrimidin-4-yl]oxybenzonitrile

(28) 4-[5-(2-aminoethyl)pyridin-2-yl]-3-(2,5-dimethylpyrazol-3-yl)oxybenzonitrile

(29) 4-[5-(aminomethyl)pyrimidin-2-yl]-3-(2-methyl-5-phenylpyrazol-3-yl)oxybenzonitrile

(30) 4-[5-(2-aminoethyl)pyrimidin-2-yl]-3-(5-cyclopropyl-2-methylpyrazol-3-yl)oxybenzonitrile

(31) 4-[5-(2-aminoethyl)pyrimidin-2-yl]-3-(5-butyl-2-methylpyrazol-3-yl)oxybenzonitrile

(32) 4-[5-(aminomethyl)pyrimidin-2-yl]-3-(5-ethyl-2-methylpyrazol-3-yl)oxybenzonitrile

(33) 4-[5-(aminomethyl)pyrimidin-2-yl]-3-(5-cyclopropyl-2-methylpyrazol-3-yl)oxybenzonitrile

(34) 4-[5-(aminomethyl)pyridin-2-yl]-3-(5-ethyl-2-methylpyrazol-3-yl)oxybenzonitrile

(35) 4-[5-(aminomethyl)pyridin-2-yl]-3-(5-cyclopropyl-2-methylpyrazol-3-yl)oxybenzonitrile

(36) 4-[5-(aminomethyl)pyrimidin-2-yl]-3-(2-methyl-6-morpholin-4-ylpyridin-4-yl)oxybenzonitrile

(37) 4-[5-(aminomethyl)pyridin-2-yl]-3-(2-methyl-6-morpholin-4-ylpyridin-4-yl)oxybenzonitrile

(38) 4-[5-(aminomethyl)pyridin-2-yl]-3-(2-methyl-5-propylpyrazol-3-yl)oxybenzonitrile

(39) 4-[5-(aminomethyl)pyridin-2-yl]-3-(2-methyl-5-propan-2-ylpyrazol-3-yl)oxybenzonitrile

(40) 4-[5-(aminomethyl)pyrimidin-2-yl]-3-(2-methyl-5-propylpyrazol-3-yl)oxybenzonitrile

(41) 4-[5-(aminomethyl)pyrimidin-2-yl]-3-(2-methyl-5-propan-2-ylpyrazol-3-yl)oxybenzonitrile

(42) 4-[5-(2-aminoethyl)pyrimidin-2-yl]-3-(5-tert-butyl-2-methylpyrazol-3-yl)oxybenzonitrile

(43) 4-[5-(2-aminoethyl)pyrimidin-2-yl]-3-(2-methyl-6-pyridin-2-ylpyridin-4-yl)oxybenzonitrile

(44) 4-[5-(2-aminoethyl)pyridin-2-yl]-3-[2-methyl-5-(1,3-thiazol-2-yl)pyrazol-3-yl]oxybenzonitrile

(45) 4-[5-(2-aminoethyl)pyrimidin-2-yl]-3-[2-methyl-5-(1,3-thiazol-2-yl)pyrazol-3-yl]oxybenzonitrile

(46) 4-[5-(2-aminoethyl)pyrimidin-2-yl]-3-(5-cyclopentyl-2-methylpyrazol-3-yl)oxybenzonitrile

(47) 4-[5-(aminomethyl)pyrimidin-2-yl]-3-(2-methyl-5-pyridin-2-ylpyrazol-3-yl)oxybenzonitrile

(48) 4-[5-(2-aminoethyl)pyrimidin-2-yl]-3-[5-(3-fluorophenyl)-2-methylpyrazol-3-yl]oxybenzonitrile

(49) 4-[5-(2-aminoethyl)pyrimidin-2-yl]-3-[2-[(2S)-2-(difluoromethyl)morpholin-4-yl]-6-methylpyridin-4-yl]oxybenzonitrile

(50) 4-[5-(aminomethyl)pyridin-2-yl]-3-[2-methyl-5-(oxan-4-yl)pyrazol-3-yl]oxybenzonitrile

(51) 4-[5-(2-aminoethyl)pyrimidin-2-yl]-3-[2-[(2R)-2-(difluoromethyl)morpholin-4-yl]-6-methylpyridin-4-yl]oxybenzonitrile

(52) 4-[5-(2-aminoethyl)pyrimidin-2-yl]-3-[2-methyl-6-(3-oxa-8-azabicyclo[3.2.1]octan-8-yl)pyridin-4-yl]oxybenzonitrile

(53) 4-[5-(2-aminoethyl)pyrimidin-2-yl]-3-(2-methyl-6-piperidin-1-ylpyrimidin-4-yl)oxybenzonitrile

(54) 4-[5-(2-aminoethyl)pyrimidin-2-yl]-3-(2-methyl-6-pyrrolidin-1-ylpyrimidin-4-yl)oxybenzonitrile

(55) 4-[5-(2-aminoethyl)pyrimidin-2-yl]-3-[2-methyl-6-(8-oxa-3-azabicyclo[3.2.1]octan-3-yl)pyridin-4-yl]oxybenzonitrile

(56) 4-[5-(2-aminoethyl)pyridin-2-yl]-3-[2-[2-methoxyethyl(methyl)amino]-6-methylpyridin-4-yl]oxybenzonitrile

(57) 4-[5-(2-aminoethyl)pyrimidin-2-yl]-3-[2-methyl-6-(propan-2-ylamino)pyridin-4-yl]oxybenzonitrile

(58) 4-[5-(2-aminoethyl)pyrimidin-2-yl]-3-[2-methyl-6-[(3R)-3-methylmorpholin-4-yl]pyridin-4-yl]oxybenzonitrile

(59) 4-[5-(2-aminoethyl)pyrimidin-2-yl]-3-[2-methyl-6-[(3S)-3-methylmorpholin-4-yl]pyridin-4-yl]oxybenzonitrile

(60) 4-[5-(2-aminoethyl)pyridin-2-yl]-3-(2-methyl-5-piperidin-1-ylpyrazol-3-yl)oxybenzonitrile

(61) 4-[5-(2-aminoethyl)pyridin-2-yl]-3-(2-methyl-5-pyrrolidin-1-ylpyrazol-3-yl)oxybenzonitrile

(62) 4-[5-(2-aminoethyl)pyridin-2-yl]-3-[5-(dimethylamino)-2-methylpyrazol-3-yl]oxybenzonitrile

(63) 4-[5-(aminomethyl)pyrimidin-2-yl]-3-[2-methyl-5-(1,3-thiazol-2-yl)pyrazol-3-yl]oxybenzonitrile

(64) 4-[5-(2-aminoethyl)pyrimidin-2-yl]-3-(2-methyl-6-pyridin-2-ylpyrimidin-4-yl)oxybenzonitrile

(65) 4-[5-(aminomethyl)pyridin-2-yl]-3-(2-methyl-5-pyridin-2-ylpyrazol-3-yl)oxybenzonitrile

(66) 4-[5-(aminomethyl)pyridin-2-yl]-3-(2-methyl-5-piperidin-1-ylpyrazol-3-yl)oxybenzonitrile

(67) 4-[5-(aminomethyl)pyridin-2-yl]-3-(2-methyl-5-pyrrolidin-1-ylpyrazol-3-yl)oxybenzonitrile

(68) 4-[5-(aminomethyl)pyridin-2-yl]-3-[5-(dimethylamino)-2-methylpyrazol-3-yl]oxybenzonitrile

(69) 4-[5-(aminomethyl)pyrimidin-2-yl]-3-[2-methyl-5-(4-methylpyridin-2-yl)pyrazol-3-yl]oxybenzonitrile

(70) 4-[5-(aminomethyl)pyrimidin-2-yl]-3-[5-(diethylamino)-2-methylpyrazol-3-yl]oxybenzonitrile

(71) 4-[5-(2-aminoethyl)pyrimidin-2-yl]-3-[5-(diethylamino)-2-methylpyrazol-3-yl]oxybenzonitrile

(72) 4-[5-(aminomethyl)pyridin-2-yl]-3-(2-methyl-6-pyrrolidin-1-ylpyrimidin-4-yl)oxybenzonitrile

(73) 4-[5-(aminoethyl)pyrimidin-2-yl]-3-[2-methyl-6-pyrrolidin-1-ylpyrimidin-4-yl]oxybenzonitrile

(74) 4-[5-(2-aminoethyl)pyrimidin-2-yl]-3-[6-(7-azabicyclo[2.2.1]heptan-7-yl)-2-methylpyrimidin-4-yl]oxybenzonitrile

(75) 4-[5-(aminomethyl)pyrimidin-2-yl]-3-[6-(7-azabicyclo[2.2.1]heptan-7-yl)-2-methylpyrimidin-4-yl]oxybenzonitrile

(76) 4-[5-(aminomethyl)pyridin-2-yl]-3-(6-piperidin-1-ylpyridazin-4-yl)oxybenzonitrile

(77) 4-[5-(2-aminoethyl)pyrimidin-2-yl]-3-[(5-phenyl-1,3,4-thiadiazol-2-yl)oxy]benzonitrile

(78) 4-[5-(2-aminoethyl)pyridin-2-yl]-3-[5-(diethylamino)-2-methylpyrazol-3-yl]oxybenzonitrile

(79) 4-[5-(2-aminoethyl)pyrimidin-2-yl]-3-[2-methyl-5-[methyl(2-methylpropyl)amino]pyrazol-3-yl]oxybenzonitrile

(80) 4-[5-(2-aminoethyl)pyrimidin-2-yl]-3-[5-[cyclopropylmethyl(methyl)amino]-2-methylpyrazol-3-yl]oxybenzonitrile

(81) 4-[5-(2-aminoethyl)pyrimidin-2-yl]-3-[2-methyl-5-[methyl(propyl)amino]pyrazol-3-yl]oxybenzonitrile

(82) 4-[5-(aminomethyl)pyridin-2-yl]-3-(2-methyl-5-morpholin-4-ylpyrazol-3-yl)oxybenzonitrile

(83) 4-[5-(2-aminoethyl)pyrimidin-2-yl]-3-[2-methyl-5-[methyl(propan-2-yl)amino]pyrazol-3-yl]oxybenzonitrile

(84) 4-[5-(2-aminoethyl)pyrimidin-2-yl]-3-[5-[2,2-difluoroethyl(methyl)amino]-2-methylpyrazol-3-yl]oxybenzonitrile

(85) 4-[5-(2-aminoethyl)pyrimidin-2-yl]-3-[2-methyl-5-[methyl(2,2,2-trifluoroethyl)amino]pyrazol-3-yl]oxybenzonitrile

(86) 4-[5-(aminomethyl)pyrimidin-2-yl]-3-[2-methyl-6-[(2S)-2-methylpyrrolidin-1-yl]pyrimidin-4-yl]oxybenzonitrile

(87) 4-[5-(2-aminoethyl)pyrimidin-2-yl]-3-[3-methyl-1-(2-methylpropyl)pyrazol-4-yl]oxybenzonitrile

(88) 4-[5-(aminomethyl)pyrimidin-2-yl]-3-[3-methyl-1-(2-methylpropyl)pyrazol-4-yl]oxybenzonitrile

(89) 4-[5-(aminomethyl)pyridin-2-yl]-3-[2-methyl-5-(trifluoromethyl)pyrazol-3-yl]oxybenzonitrile

(90) 4-[5-(aminomethyl)pyrimidin-2-yl]-3-[2-methyl-5-(trifluoromethyl)pyrazol-3-yl]oxybenzonitrile

(91) 4-[5-(2-aminoethyl)pyrimidin-2-yl]-3-[2-methyl-5-(trifluoromethyl)pyrazol-3-yl]oxybenzonitrile

(92) 4-[5-(aminomethyl)pyrimidin-2-yl]-3-[2-(7-azabicyclo[2.2.1]heptan-7-yl)-6-methylpyridin-4-yl]oxybenzonitrile

(93) 4-[5-(2-aminoethyl)pyrimidin-2-yl]-3-[2-(7-azabicyclo[2.2.1]heptan-7-yl)-6-methylpyridin-4-yl]oxybenzonitrile

(94) 4-[5-(2-aminoethyl)pyrimidin-2-yl]-3-(3-methyl-1-pyridin-2-ylpyrazol-4-yl)oxybenzonitrile

(95) 4-[5-(aminomethyl)pyrimidin-2-yl]-3-(3-methyl-1-pyridin-2-ylpyrazol-4-yl)oxybenzonitrile

(96) 4-[5-(aminomethyl)pyrimidin-2-yl]-3-[3-methyl-1-(2,2,2-trifluoroethyl)pyrazol-4-yl]oxybenzonitrile

(97) 4-[5-(2-aminoethyl)pyrimidin-2-yl]-3-[5-[ethyl(propan-2-yl)amino]-2-methylpyrazol-3-yl]oxybenzonitrile

(98) 4-[5-(2-aminoethyl)pyrimidin-2-yl]-3-[2-methyl-6-(2-methylpropoxy)pyrimidin-4-yl]oxybenzonitrile

(99) 4-[5-(2-aminoethyl)pyrimidin-2-yl]-3-[6-(diethylamino)-2-methylpyrimidin-4-yl]oxybenzonitrile

(100) 4-[5-(2-aminoethyl)pyrimidin-2-yl]-3-[2-methyl-6-[methyl(propan-2-yl)amino]pyrimidin-4-yl]oxybenzonitrile

(101) 4-[5-(2-aminoethyl)pyrimidin-2-yl]-3-[2-methyl-6-[(2R)-2-methylpyrrolidin-1-yl]pyrimidin-4-yl]oxybenzonitrile

(102) 4-[5-(2-aminoethyl)pyrimidin-2-yl]-3-[2-methyl-6-[(2S)-2-methylpyrrolidin-1-yl]pyrimidin-4-yl]oxybenzonitrile

(103) 4-[5-(aminomethyl)pyrimidin-2-yl]-3-[2-methyl-5-(3,3,4,5-tetrafluoropyrrolidin-1-yl)pyrazol-3-yl]oxybenzonitrile

(104) 4-[5-(aminomethyl)pyrimidin-2-yl]-3-[5-[2,2-difluoroethyl(ethyl)amino]-2-methylpyrazol-3-yl]oxybenzonitrile

(105) 4-[5-(2-aminoethyl)pyrimidin-2-yl]-3-[5-[2,2-difluoroethyl(ethyl)amino]-2-methylpyrazol-3-yl]oxybenzonitrile

(106) 4-[5-(2-aminoethyl)pyrimidin-2-yl]-3-[2-methyl-5-(3,3,4,4-tetrafluoropyrrolidin-1-yl)pyrazol-3-yl]oxybenzonitrile

(107) 4-[5-(2-aminoethyl)pyrimidin-2-yl]-3-[1-(2-methylpropyl)pyrazol-4-yl]oxybenzonitrile

(108) 4-[5-(2-aminoethyl)pyrimidin-2-yl]-3-(1-pyridin-2-ylpyrazol-4-yl)oxybenzonitrile

(109) 4-[5-(2-aminoethyl)pyrimidin-2-yl]-3-[1-(2,2-dimethylpropyl)-3-methylpyrazol-4-yl]oxybenzonitrile

(110) 4-[5-(aminomethyl)pyrimidin-2-yl]-3-[2-methyl-5-(1,3-thiazol-4-yl)pyrazol-3-yl]oxybenzonitrile

(111) 4-[5-(2-aminoethyl)pyrimidin-2-yl]-3-[3-ethyl-1-(2-methylpropyl)pyrazol-4-yl]oxybenzonitrile

(112) 4-[5-(2-aminoethyl)pyrimidin-2-yl]-3-[1-(2-methylpropyl)-3-(trifluoromethyl)pyrazol-4-yl]oxybenzonitrile

(113) 4-[5-(aminomethyl)pyrimidin-2-yl]-3-[2-methyl-5-(4-methyl-1,3-thiazol-5-yl)pyrazol-3-yl]oxybenzonitrile

(114) 4-[5-(aminomethyl)pyrimidin-2-yl]-3-[2-methyl-5-(5-methyl-1,3-thiazol-4-yl)pyrazol-3-yl]oxybenzonitrile

(115) 2-[2-[4-fluoro-2-[3-methyl-1-(2-methylpropyl)pyrazol-4-yl]oxyphenyl]pyrimidin-5-yl]ethanamine

(116) 5-[2-[5-(2-aminoethyl)pyrimidin-2-yl]-5-fluorophenoxy]-N,N-diethyl-1-methylpyrazole-3-amine

(117) 2-[6-[4-fluoro-2-(2-methyl-5-morpholin-4-ylpyrazol-3-yl)oxyphenyl]pyridin-3-yl]ethanamine

(118) 2-[2-[4-fluoro-2-(2-methyl-5-pyridin-2-ylpyrazol-3-yl)oxyphenyl]pyrimidin-5-yl]ethanamine

(119) 2-[2-[4-fluoro-2-(2-methyl-5-pyrrolidin-1-ylpyrazol-3-yl)oxyphenyl]pyrimidin-5-yl]ethanamine

(120) 2-[6-[4-fluoro-2-(2-methyl-5-pyrrolidin-1-ylpyrazol-3-yl)oxyphenyl]pyridin-3-yl]ethanamine

(121) 5-[2-[5-(2-aminoethyl)pyrimidin-2-yl]-5-fluorophenoxy]-N-(2,2-difluoroethyl)-N,1-dimethylpyrazole-3-amine

(122) 5-[2-[5-(2-aminoethyl)pyridin-2-yl]-5-fluorophenoxy]-N-(2,2-difluoroethyl)-N,1-dimethylpyrazole-3-amine

(123) 5-[2-[5-(2-aminoethyl)pyrimidin-2-yl]-5-fluorophenoxy]-N-(2,2-difluoroethyl)-N-ethyl-1-methylpyrazole-3-amine

(124) 5-[2-[5-(2-aminoethyl)pyridin-2-yl]-5-fluorophenoxy]-N-(2,2-difluoroethyl)-N-ethyl-1-methylpyrazole-3-amine

(125) 5-[2-[5-(2-aminoethyl)pyridin-2-yl]-5-fluorophenoxy]-N,N-diethyl-1-methylpyrazole-3-amine

(126) 5-[2-[5-(2-aminoethyl)pyridin-2-yl]-5-fluorophenoxy]-N,N,1-trimethylpyrazole-3-amine

(127) 2-[6-[4-fluoro-2-[2-methyl-5-(oxan-4-yl)pyrazol-3-yl]oxyphenyl]pyridin-3-yl]ethanamine

(128) [2-[4-fluoro-2-(2-methyl-5-propan-2-ylpyrazol-3-yl)oxyphenyl]pyrimidin-5-yl]methanamine

(129) 2-[2-[4-fluoro-2-(2-methyl-5-propan-2-ylpyrazol-3-yl)oxyphenyl]pyrimidin-5-yl]ethanamine

(130) 2-[6-[4-fluoro-2-(2-methyl-5-propan-2-ylpyrazol-3-yl)oxyphenyl]pyridin-3-yl]ethanamine

(131) 2-[6-[2-(5-cyclopropyl-2-methylpyrazol-3-yl)oxy-4-fluorophenyl]pyridin-3-yl]ethanamine

(132) 4-[5-(2-aminoethyl)pyrimidin-2-yl]-3-(5-ethyl-2-methylpyrazole-3-carbonyl)benzonitrile

(133) 4-[5-(aminomethyl)pyrimidin-2-yl]-3-(5-ethyl-2-methylpyrazole-3-carbonyl)benzonitrile

(134) 4-[5-(2-aminoethyl)pyrimidin-2-yl]-3-(2-methyl-5-morpholin-4-ylpyrazole-3-carbonyl)benzonitrile

(135) 4-[5-(aminomethyl)pyrimidin-2-yl]-3-(2-methyl-5-morpholin-4-ylpyrazole-3-carbonyl)benzonitrile

(136) 4-[5-(aminomethyl)pyridin-2-yl]-3-(2-methyl-5-morpholin-4-ylpyrazole-3-carbonyl)benzonitrile

(137) 4-[5-(aminomethyl)pyrimidin-2-yl]-3-(5-tert-butyl-2-methylpyrazole-3-carbonyl)benzonitrile

(138) 4-[5-(2-aminoethyl)pyrimidin-2-yl]-3-(5-tert-butyl-2-methylpyrazole-3-carbonyl)benzonitrile

(139) 4-[5-(2-aminoethyl)pyrimidin-2-yl]-3-[5-(diethylamino)-2-methylpyrazole-3-carbonyl]benzonitrile

(140) 4-[5-(2-aminoethyl)pyrimidin-2-yl]-3-(1-pyridin-2-ylpyrazole-4-carbonyl)benzonitrile

(141) 4-[5-(2-aminoethyl)pyrimidin-2-yl]-3-(2-methyl-6-morpholin-4-ylpyridine-4-carbonyl)benzonitrile

(142) 4-[5-(2-aminoethyl)pyrimidin-2-yl]-3-[5-(dimethylamino)-2-methylpyrazole-3-carbonyl]benzonitrile

(143) 4-[5-(aminomethyl)pyrimidin-2-yl]-3-[5-(dimethylamino)-2-methylpyrazole-3-carbonyl]benzonitrile

(144) 4-[5-(aminomethyl)pyrimidin-2-yl]-3-[5-(diethylamino)-2-methylpyrazole-3-carbonyl]benzonitrile

(145) 4-[5-(2-aminoethyl)pyrimidin-2-yl]-3-(2-methyl-5-piperidin-1-ylpyrazole-3-carbonyl)benzonitrile

(146) 4-[5-(aminomethyl)pyrimidin-2-yl]-3-(2-methyl-5-piperidin-1-ylpyrazole-3-carbonyl)benzonitrile

(147) 4-[5-(2-aminoethyl)pyrimidin-2-yl]-3-(2-methyl-5-pyrrolidin-1-ylpyrazole-3-carbonyl)benzonitrile

(148) 4-[5-(aminomethyl)pyrimidin-2-yl]-3-(2-methyl-5-pyrrolidin-1-ylpyrazole-3-carbonyl)benzonitrile

(149) 4-[5-(2-aminoethyl)pyrimidin-2-yl]-3-[5-[2,2-difluoroethyl(ethyl)amino]-2-methylpyrazole-3-carbonyl]benzonitrile

(150) 4-[5-(aminomethyl)pyrimidin-2-yl]-3-[5-[2,2-difluoroethyl(ethyl)amino]-2-methylpyrazole-3-carbonyl]benzonitrile.

[Claim 20]

A pharmaceutical composition comprising the compound according to any one of claims 1 to 19 or a pharmaceutically acceptable salt thereof.

[Claim 21]

A pharmaceutical composition having TRPC6 channel inhibitory activity, comprising the compound according to any one of claims 1 to 19 or a pharmaceutically acceptable salt thereof.

[Claim 22]

Use of ~~A~~ the compound according to any one of claims 1 to 19 or a pharmaceutically acceptable salt thereof in the manufacture of a ~~-~~therapeutic or prophylactic agent for nephrotic syndrome, membranous nephropathy, acute renal failure, sepsis, chronic renal failure, diabetic nephropathy, pulmonary hypertension, acute lung injury, heart failure, malignant tumor, or muscular dystrophy~~, comprising the compound according to any one of claims 1 to 19 or a pharmaceutically acceptable salt thereof~~.