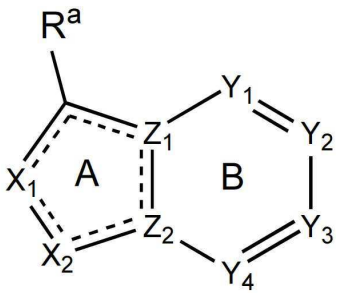
【CLAIM】

【Claim 1】

A heterocyclic compound represented by the following Formula 1, a hydrate thereof, a solvate thereof or a pharmaceutically acceptable salt thereof, wherein:

<Formula 1>



a fused bicyclic ring of A ring and B ring is formed,

X_1, Y_1, Y_2, Y_3 and Y_4 are independently CH or N,

X_2 is CH, N or NH,

Z_1 and Z_2 are C or N,

at least one of X_1, X_2, Y_1, Y_2, Y_3, Y_4, Z_1 and Z_2 is N or NH,

R^a is H, C_{1-6} straight or branched chain alkyl substituted with R^{a-1}, or $C(O)R^{a-1}$,

R^{a-1} is C_{1-6} straight or branched chain alkyl, C_{3-8} cycloalkyl, hydroxy, R^s, or R^u, and R^{a-1} is optionally substituted with one or more independent R^{a-2},

R^{a-2} is C_{1-6} straight or branched chain alkyl, halogen, C_{1-4} haloalkyl,

X_1 is optionally substituted with R^b, wherein R^b is amino, or $C(O)R^s$,

Y_1 is optionally substituted with R^1, R^1 is R^f,

Y_2 is optionally substituted with R^2,

R^2 is C_{1-6} straight or branched chain alkyl, halogen, C_{5-12} aryl with 1 to 2 ring(s), R^u, or R^f, and R^2 is optionally substituted with one or more independent R^{2-1},

R^{2-1} is C_{1-4} alkoxy, halogen or hydroxy,

Y_3 is optionally substituted with R^3,

R^3 is C_{5-7} aryl, R^u, or R^f, and R^3 is optionally substituted with one or more independent R^{3-1},

R^{3-1} is C_{1-4} alkoxy, halogen, hydroxy or cyano,

Y_4 is optionally substituted with R^4 or -L-R^4,

L is -NH$(CH_2)_m$-, -NHC(O)-, -NHSO_2- or -S-, m is an integer from 0 to 3,

R^4 is C_{5-12} aryl with 1 to 2 ring(s), R^u, R^s, or R^f, and R^4 is optionally substituted with one or more independent Q,

Q is C_{1-6} straight or branched chain alkyl, halogen, hydroxy, C_{1-4} haloalkyl, C_{1-4} alkoxy, nitro, cyano, amino, carboxylate, carboxylic acid, CHR^5, CH_2R^5, NR^5R^6, $C(O)R^5$, $C(O)OR^5$, $C(O)NR^5R^6$, $NHC(O)(CH_2)_pR^5$, $NHC(O)CH_2OR^5$, $NHC(O)CH_2NR^5R^6$, $NHCH_2CH_2R^5$, $NR^5C(O)R^6$, R^u, or R^s, p is an integer from 0 to 3, and Q is optionally substituted with one or more independent R^7,

R^5 and R^6 are independently H, C_{1-6} straight or branched chain alkyl, C_{3-8} cycloalkyl, C_{1-4} alkoxy, amino, sulfonyl, C_{5-7} aryl, arylalkyl, R^u, or R^s,

R^7 is C_{1-6} straight or branched chain alkyl, C_{3-8} cycloalkyl, halogen, C_{1-4} haloalkyl, hydroxy, C_{1-4} alkoxy, hydroxyalkyl, cyano, amino, alkylamino, C_{1-6} alkylcarboxylate, nitro, R^u, C_{1-4} alkyl substituted with R^u, or R^s, and the bond between Q and R^7 is a single bond or a double bond,

R^s is a 4- to 10-membered saturated heterocycloalkyl ring with 1 to 2 ring(s) having 1 to 3 heteroatoms selected from N, O and S,

R^u is a 5- to 7-membered unsaturated heterocycloalkyl ring having 1 to 4 heteroatoms selected from N, O and S,

R^f is a fused bicyclic ring in which 5- to 7-membered saturated or unsaturated heterocycloalkyl ring having 1 to 2 heteroatoms selected from N, O and S is fused with an aryl ring or a 5- to 7-membered heteroaryl ring having 1 to 2 N,

R^s, R^u and R^f are independently optionally substituted with one to two oxo (O) or thioxo (S).

【Claim 2】

The compound, a hydrate thereof, a solvate thereof or a pharmaceutically acceptable salt thereof of Claim 1, wherein the A ring is pyrrole, pyrazole, imidazole, or triazole.

【Claim 3】

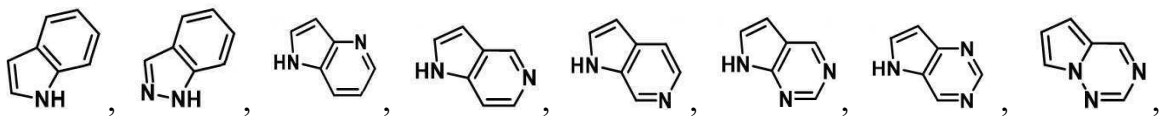
The compound, a hydrate thereof, a solvate thereof or a pharmaceutically acceptable salt thereof of Claim 1, wherein the B ring is benzene, pyridine, pyrimidine or triazine.

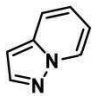
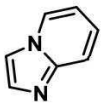
【Claim 4】

The compound, a hydrate thereof, a solvate thereof or a pharmaceutically acceptable salt thereof of Claim 1, wherein the fused bicyclic ring of A ring and B ring is indole, indazole, pyrrolopyridine, pyrrolopyrimidine, pyrrolotriazine, pyrazolopyridine, imidazopyridine, or triazolopyridine.

【Claim 5】

The compound, a hydrate thereof, a solvate thereof or a pharmaceutically acceptable salt thereof of Claim 1, wherein the fused bicyclic ring of A ring and B ring is one selected from the group consisting of the following:



, , and .

【Claim 6】

The compound, a hydrate thereof, a solvate thereof or a pharmaceutically acceptable salt thereof of Claim 1, wherein

R^a is H, propyl, $C(O)R^{a-1}$,

R^{a-1} is methyl, butyl, cyclohexyl, hydroxy, piperidinyl, azaspiroheptanyl, azaspirooctanyl, azaspirononanyl, azabicycloheptanyl, azabicyclooctanyl, azabicyclononanyl or tetrahydropyridinyl, and

R^{a-2} is methyl, ethyl, propyl, isopropyl, fluoro, or trifluoromethyl.

【Claim 7】

The compound, a hydrate thereof, a solvate thereof or a pharmaceutically acceptable salt thereof of Claim 1, wherein R^b is amino or piperidinyl-carbonyl.

【Claim 8】

The compound, a hydrate thereof, a solvate thereof or a pharmaceutically acceptable salt thereof of Claim 1, wherein R^1 is benzodioxolyl.

【Claim 9】

The compound, a hydrate thereof, a solvate thereof or a pharmaceutically acceptable salt thereof of Claim 1, wherein

R^2 is methyl, fluoro, phenyl, naphthyl (naphthalenyl), furanyl, pyridinyl, isoindolinone,

benzodioxolyl, dihydrobenzodioxinyl, benzofuranyl or indazolyl, and

R^{2-1} is methoxy, chloro, fluoro or hydroxy.

【Claim 10】

The compound, a hydrate thereof, a solvate thereof or a pharmaceutically acceptable salt thereof of Claim 1, wherein

R^3 is phenyl, pyridinyl or benzodioxolyl, and

R^{3-1} is methoxy, chloro, hydroxy or cyano.

【Claim 11】

The compound, a hydrate thereof, a solvate thereof or a pharmaceutically acceptable salt thereof of Claim 1, wherein L is -NH-, -$NHCH_2$-, -$NH(CH_2)_2$-, -NHC(O)-, -$NHSO_2$- or -S-.

【Claim 12】

The compound, a hydrate thereof, a solvate thereof or a pharmaceutically acceptable salt thereof of Claim 1, wherein R^4 is phenyl, naphthyl (naphthalenyl), furanyl, pyrazolyl, dihydropyridinyl, pyridinyl, pyrimidinyl, pyridinone, pyrimidinone, isoxazolyl, piperidinyl, benzodioxolyl, isoindolinone, dihydroisoquinolinone, benzofuranyl, benzothiophenyl, indolyl, indazolyl, quinolinyl, quinolinone, isoquinolinone, dihydropyrrolopyridinone, benzoisoxazolone, dihydronaphthyridinone, benzoxazolyl, benzoisoxazolyl, triazolopyridinone, phthalazinone, quinazolinone, or pyridopyrimidinone.

【Claim 13】

The compound, a hydrate thereof, a solvate thereof or a pharmaceutically acceptable salt

thereof of Claim 1, wherein Q is methyl, propyl, isopropyl, fluoro, chloro, bromo, hydroxy, trifluoromethyl, methoxy, nitro, cyano, amino, carboxylate, carboxylic acid, CHR^5, CH_2R^5, NR^5R^6, $C(O)R^5$, $C(O)OR^5$, $C(O)NR^5R^6$, $NHC(O)R^5$, $NHC(O)CH_2R^5$, $NHC(O)(CH_2)_2R^5$, $NHC(O)CH_2OR^5$, $NHC(O)CH_2NR^5R^6$, $NHCH_2CH_2R^5$, $NR^5C(O)R^6$, tetrazolyl, oxadiazolyl, oxadiazolone, furyl, thienyl, imidazolyl, pyrazolyl, isoxazolyl, thiazolyl, oxo-thiadiazolyl, thioxo-oxadiazolyl, pyridinyl, pyrimidinyl, azetidinyl, oxazolidinone, piperidinyl, piperazinyl, morpholino, azaspiroheptanyl, azaspirooctanyl, azaspirononanyl, azabicycloheptanyl, or azabicyclooctanyl,

R^5 is H, methyl, ethyl, butyl, cyclopropyl, cyclohexane, methoxy, amino, phenyl, benzyl, imidazolyl, oxadiazolyl, oxadiazolone, pyridinyl, pyrimidinyl, azetidinyl, piperidinyl, piperidinone, piperazinyl, morpholino, thiazolidinedione, piperazinone, piperazine-dione, azaspiroheptanyl, or azaspirononanyl, and

R^6 is H, methyl, ethyl, propyl, isopropyl, sulfonyl, pyrazolyl, pyridinyl, pyridazinyl, azetidinyl or piperidinyl.

【Claim 14】

The compound, a hydrate thereof, a solvate thereof or a pharmaceutically acceptable salt thereof of Claim 1, wherein R^7 is methyl, propyl, isopropyl, cyclopropyl, fluoro, chloro, difluoromethyl, trifluoromethyl, hydroxy, methoxy, hydroxymethyl, cyano, amino, dimethylamino, methylcarboxylate, *tert*-butylcarboxylate, nitro, isoxazolyl, thiazolyl, pyridinyl, or oxadiazolylmethyl.

【Claim 15】

The compound, a hydrate thereof, a solvate thereof or a pharmaceutically acceptable salt thereof of Claim 1, wherein the compound represented by the Formula 1 is selected from the group

consisting of:

[1] 7-phenylpyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[2] (7-(3-chlorophenyl)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[3] methyl 3-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)benzoate,

[4] (7-(3-methoxyphenyl)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[5] (7-(3-nitrophenyl)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[6] 3-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)benzonitrile,

[7] (7-(3-aminophenyl)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[8] (7-(2-chloropyridin-4-yl)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[9] (7-(5-aminopyridin-3-yl)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[10] 4-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)benzoic acid,

[11] methyl 4-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)benzoate,

[12] (7-(4-chlorophenyl)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[13] (7-(4-nitrophenyl)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[14] (7-(4-aminophenyl)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[15] 4-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)benzonitrile,

[16] (7-(6-nitropyridin-3-yl)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[17] (7-(6-aminopyridin-3-yl)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[18] 5-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)picolinonitrile,

[19] (7-(6-fluoropyridin-3-yl)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[20] (7-(4-methoxy-3-(trifluoromethyl)phenyl)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[21] (7-(3-chloro-4-hydroxyphenyl)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone],

[22] 2-fluoro-4-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)benzonitrile,

[23] 2-(dimethylamino)-4-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)benzonitrile,

[24] (7-(3,4-dimethoxyphenyl)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[25] (7-(1-methyl-1*H*-pyrazol-5-yl)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[26] (7-(3-(morpholine-4-carbonyl)phenyl)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[27] *N*-methyl-3-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)benzamide,

[28] *N*-isopropyl-3-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)benzamide,

[29] azetidin-1-yl(3-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)phenyl)methanone,

[30] *N*-(2-methoxyethyl)-3-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)benzamide,

[31] *N*-(2-(dimethylamino)ethyl)-3-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)benzamide,

[32] *N*-(cyclopropylmethyl)-3-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)benzamide,

[33] *N*-(1-methylpiperidin-4-yl)-3-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)benzamide,

[34] piperazin-1-yl(3-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)phenyl)methanone,

[35] *tert*-butyl 4-(3-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)benzoyl)piperazine-1-carboxylate,

[36] *N*-(2-cyanoethyl)-3-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)benzamide,

[37] 3-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)-*N*-(pyridin-3-yl)benzamide,

[38] 3-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)-*N*-(pyridin-4-yl)benzamide,

[39] (7-(5-(morpholine-4-carbonyl)pyridin-3-yl)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[40] *N*-methyl-5-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)nicotinamide,

[41] azetidin-1-yl(5-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)pyridin-3-yl)methanone,

[42] (3-hydroxyazetidin-1-yl)(5-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)pyridin-3-yl)methanone,

[43] (7-(5-(2-azaspiro[3.3]heptane-2-carbonyl)pyridin-3-yl)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[44] (3,3-difluoroazetidin-1-yl)(5-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)pyridin-3-yl)methanone,

[45] *N*-(2-methoxyethyl)-5-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)nicotinamide,

[46] *N*-(cyclopropylmethyl)-5-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)nicotinamide,

[47] *N*-(1-methylpiperidin-4-yl)-5-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)nicotinamide,

[48] piperazin-1-yl(5-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)pyridin-3-yl)methanone,

[49] (4-methylpiperazin-1-yl)(5-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)pyridin-3-yl)methanone,

[50] (4-isopropylpiperazin-1-yl)(5-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)pyridin-3-yl)methanone,

[51] *N*-(2-cyanoethyl)-5-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)nicotinamide,

[52] *N*-(cyanomethyl)-5-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)nicotinamide,

[53] 5-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)-*N*-(pyridin-3-yl)nicotinamide,

[54] 5-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)-*N*-(pyridin-4-yl)nicotinamide,

[55] *N*-(isoxazol-3-ylmethyl)-5-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)nicotinamide,

[56] 5-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)-*N*-(pyridazin-4-yl)nicotinamide,

[57] 5-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)-*N*-(thiazol-5-ylmethyl)nicotinamide,

[58] *N*-methyl-4-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)benzamide,

[59] *N,N*-dimethyl-4-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)benzamide,

[60] *N*-isopropyl-4-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)benzamide,

[61] azetidin-1-yl(4-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)phenyl)methanone,

[62] *N*-(2-methoxyethyl)-4-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)benzamide,

[63] *N*-(2-(dimethylamino)ethyl)-4-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)benzamide,

[64] *N*-(cyclopropylmethyl)-4-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)benzamide,

[65] *N*-(1-methylpiperidin-4-yl)-4-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)benzamide,

[66] piperazin-1-yl(4-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)phenyl)methanone,

[67] (4-methylpiperazin-1-yl)(4-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)phenyl)methanone,

[68] (4-isopropylpiperazin-1-yl)(4-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)phenyl)methanone,

[69] *N*-(2-cyanoethyl)-4-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)benzamide,

[70] *N*-(cyanomethyl)-4-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)benzamide,

[71] 4-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)-*N*-(pyridin-3-yl)benzamide,

[72] 4-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)-*N*-(pyridin-4-yl)benzamide,

[73] *N*-(isoxazol-3-ylmethyl)-4-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)benzamide,

[74] (7-(6-(morpholine-4-carbonyl)pyridin-3-yl)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[75] *N*-methyl-5-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)picolinamide,

[76] *N*-isopropyl-5-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)picolinamide,

[77] azetidin-1-yl(5-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)pyridin-2-yl)methanone,

[78] *N*-(2-methoxyethyl)-5-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)picolinamide,

[79] *N*-(2-(dimethylamino)ethyl)-5-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)picolinamide,

[80] *N*-(cyclopropylmethyl)-5-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)picolinamide,

[81] *N*-(1-methylpiperidin-4-yl)-5-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-

yl)picolinamide,

[82] piperazin-1-yl(5-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)pyridin-2-yl)methanone,

[83] (4-methylpiperazin-1-yl)(5-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)pyridin-2-yl)methanone,

[84] (4-isopropylpiperazin-1-yl)(5-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)pyridin-2-yl)methanone,

[85] *N*-(2-cyanoethyl)-5-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)picolinamide,

[86] *N*-(cyanomethyl)-5-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)picolinamide,

[87] 5-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)-*N*-(pyridin-3-yl)picolinamide,

[88] 5-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)-*N*-(pyridin-4-yl)picolinamide,

[89] *N*-(isoxazol-3-ylmethyl)-5-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)picolinamide,

[90] *N*-(2-cyanoethyl)-5-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)furan-2-carboxamide,

[91] 3-methoxy-*N*-(3-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)phenyl)propanamide,

[92] 1-(3-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)phenyl)urea,

[93] 1-methyl-*N*-(3-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)phenyl)piperidine-4-carboxamide,

[94] *N*-(3-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-

yl)phenyl)cyclopropanecarboxamide,

[95] *N*-(3-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)phenyl)nicotinamide,

[96] *N*-(3-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)phenyl)cyclohexanecarboxamide,

[97] *N*-(4-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)phenyl)acetamide,

[98] 3-methoxy-*N*-(4-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)phenyl)propanamide,

[99] 1-methyl-*N*-(4-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)phenyl)piperidine-4-carboxamide,

[100] *N*-(4-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)phenyl)cyclopropanecarboxamide,

[101] *N*-(4-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)phenyl)nicotinamide,

[102] *N*-(4-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)phenyl)cyclohexanecarboxamide,

[103] 3-methoxy-*N*-(5-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)pyridin-2-yl)propanamide,

[104] 2-(dimethylamino)-*N*-(5-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)pyridin-2-yl)acetamide,

[105] 2-oxo-*N*-(5-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)pyridin-2-yl)piperidine-4-carboxamide,

[106] *N*-(5-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)pyridin-2-yl)-2-(pyridin-3-yl)acetamide,

[107] (7-(6-((3-methoxypropyl)amino)pyridin-3-yl)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[108] (7-(6-morpholinopyridin-3-yl)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-

yl)methanone,

[109] (7-(6-(isopropylamino)pyridin-3-yl)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[110] piperidin-1-yl(7-(6-(piperidin-1-yl)pyridin-3-yl)pyrazolo[1,5-*a*]pyridin-3-yl)methanone,

[111] (7-(6-(4-methylpiperazin-1-yl)pyridin-3-yl)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[112] *N*-(5-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)pyridin-2-yl)methanesulfonamide,

[113] (7-(3-(1*H*-tetrazol-5-yl)phenyl)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[114] (7-(4-(1*H*-tetrazol-5-yl)phenyl)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[115] 3-(3-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)phenyl)-1,2,4-oxadiazol-5(4*H*)-one,

[116] 3-(4-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)phenyl)-1,2,4-oxadiazol-5(4*H*)-one,

[117] 3-(5-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)pyridin-2-yl)-1,2,4-oxadiazol-5(4*H*)-one,

[118] (7-(4-(5-methyl-1,2,4-oxadiazol-3-yl)phenyl)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[119] (*Z*)-5-(3-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)benzylidene)thiazolidine-2,4-dione,

[120] *tert*-butyl 4-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)-3,6-dihydropyridine-1(2*H*)-carboxylate,

[121] (7-(benzo[*d*][1,3]dioxol-5-yl)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[122] (7-(benzofuran-3-yl)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[123] (7-(benzofuran-2-yl)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[124] (7-(benzo[*b*]thiophen-3-yl)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[125] (7-(1*H*-indazol-6-yl)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[126] (7-(1*H*-indol-5-yl)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[127] (7-(benzofuran-5-yl)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[128] (7-(naphthalen-1-yl)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[129] (7-(naphthalen-2-yl)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[130] piperidin-1-yl(7-(quinolin-3-yl)pyrazolo[1,5-*a*]pyridin-3-yl)methanone,

[131] 7-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)-3,4-dihydroisoquinolin-1(2*H*)-one,

[132] 2-methyl-7-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)-3,4-dihydroisoquinolin-1(2*H*)-one,

[133] 2-isopropyl-7-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)-3,4-dihydroisoquinolin-1(2*H*)-one,

[134] 7-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)isoquinolin-1(2*H*)-one,

[135] 2-methyl-7-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)isoquinolin-1(2*H*)-one,

[136] 6-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)-3,4-dihydroisoquinolin-1(2*H*)-one,

[137] 2-methyl-6-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)-3,4-dihydroisoquinolin-1(2*H*)-one,

[138] 6-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)isoquinolin-1(2*H*)-one,

[139] 2-methyl-6-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)isoquinolin-

1(2*H*)-one,

[140] 6-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)isoindolin-1-one,

[141] 2-methyl-6-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)isoindolin-1-one,

[142] 2-isopropyl-6-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)isoindolin-1-one,

[143] 5-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)isoindolin-1-one,

[144] 2-methyl-5-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)isoindolin-1-one,

[145] 6-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)quinolin-2(1*H*)-one,

[146] 4-((3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)amino)benzonitrile,

[147] 3-((3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)amino)pyridin-2(1*H*)-one,

[148] piperidin-1-yl(7-((pyrimidin-2-ylmethyl)amino)pyrazolo[1,5-*a*]pyridin-3-yl)methanone,

[149] piperidin-1-yl(7-((2-(pyridin-4-yl)ethyl)amino)pyrazolo[1,5-*a*]pyridin-3-yl)methanone,

[150] (7-((1-methylpiperidin-4-yl)amino)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[151] 1-(7-(quinolin-3-yl)pyrazolo[1,5-*a*]pyridin-3-yl)pentan-1-one,

[152] 4-(3-acetylpyrazolo[1,5-*a*]pyridin-7-yl)benzonitrile,

[153] 4-(3-(2-hydroxypropan-2-yl)pyrazolo[1,5-*a*]pyridin-7-yl)benzonitrile,

[154] 7-(3-(4-fluoropiperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)-3,4-dihydroisoquinolin-1(2*H*)-one,

[155] 6-(3-(4-fluoropiperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)isoindolin-1-one,

[156] 4-(3-(4-fluoropiperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)benzonitrile,

[157] (4-fluoropiperidin-1-yl)(7-(4-nitrophenyl)pyrazolo[1,5-*a*]pyridin-3-yl)methanone,

[158] cyclohexyl(7-phenylpyrazolo[1,5-*a*]pyridin-3-yl)methanone,

[159] 7-(2-amino-3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)-3,4-dihydroisoquinolin-1(2*H*)-one,

[160] 7-(2-amino-3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)-2-methyl-3,4-dihydroisoquinolin-1(2*H*)-one,

[161] (7-(3-chlorophenyl)-1*H*-indazol-3-yl)(piperidin-1-yl)methanone,

[162] (8-(3-chlorophenyl)imidazo[1,2-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[163] (8-(4-nitrophenyl)imidazo[1,2-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[164] (8-(4-aminophenyl)imidazo[1,2-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[165] (8-(3-chlorophenyl)-6-methylimidazo[1,2-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[166] (8-(2-chloropyridin-4-yl)-6-methylimidazo[1,2-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[167] (8-(3-chlorophenyl)-6-fluoroimidazo[1,2-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[168] (7-(4-methoxyphenyl)-[1,2,3]triazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[169] (7-(3-chlorophenyl)-1*H*-indol-3-yl)(piperidin-1-yl)methanone,

[170] (6-(3-chlorophenyl)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[171] (6-(4-methoxyphenyl)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[172] (6-(benzo[*d*][1,3]dioxol-5-yl)-1*H*-pyrrolo[3,2-*b*]pyridin-2-yl)(piperidin-1-yl)methanone,

[173] (5-(benzo[*d*][1,3]dioxol-5-yl)-1*H*-pyrrolo[3,2-*b*]pyridin-2-yl)(piperidin-1-yl)methanone,

[174] (4-(benzo[*d*][1,3]dioxol-5-yl)-1*H*-pyrrolo[3,2-*c*]pyridin-2-yl)(piperidin-1-yl)methanone,

[175] (4-(benzo[*d*][1,3]dioxol-5-yl)-1*H*-pyrrolo[2,3-*c*]pyridin-2-yl)(piperidin-1-yl)methanone,

[176] (4-(benzo[*d*][1,3]dioxol-5-yl)pyrrolo[2,1-*f*][1,2,4]triazin-6-yl)(piperidin-1-

yl)methanone,

[177] (4-(benzo[*d*][1,3]dioxol-5-yl)-7*H*-pyrrolo[2,3-*d*]pyrimidin-6-yl)(piperidin-1-yl)methanone,

[178] (5-(2,3-dihydrobenzo[*b*][1,4]dioxin-6-yl)-1*H*-pyrrolo[3,2-*b*]pyridin-2-yl)(piperidin-1-yl)methanone,

[179] (5-(4-methoxyphenyl)-1*H*-pyrrolo[3,2-*b*]pyridin-2-yl)(piperidin-1-yl)methanone,

[180] (5-(4-chlorophenyl)-1*H*-pyrrolo[3,2-*b*]pyridin-2-yl)(piperidin-1-yl)methanone,

[181] (5-(3,4-dimethoxyphenyl)-1*H*-pyrrolo[3,2-*b*]pyridin-2-yl)(piperidin-1-yl)methanone,

[182] (5-(4-fluorophenyl)-1*H*-pyrrolo[3,2-*b*]pyridin-2-yl)(piperidin-1-yl)methanone,

[183] (5-(furan-3-yl)-1*H*-pyrrolo[3,2-*b*]pyridin-2-yl)(piperidin-1-yl)methanone,

[184] piperidin-1-yl(5-(pyridin-4-yl)-1*H*-pyrrolo[3,2-*b*]pyridin-2-yl)methanone,

[185] (5-(3-chlorophenyl)-1*H*-pyrrolo[3,2-*b*]pyridin-2-yl)(piperidin-1-yl)methanone,

[186] (5-(3-chloro-4-hydroxyphenyl)-1*H*-pyrrolo[3,2-*b*]pyridin-2-yl)(piperidin-1-yl)methanone,

[187] (2-(benzo[*d*][1,3]dioxol-5-yl)-5*H*-pyrrolo[3,2-*d*]pyrimidin-6-yl)(piperidin-1-yl)methanone,

[188] (5-(benzofuran-3-yl)-1*H*-pyrrolo[3,2-*b*]pyridin-2-yl)(piperidin-1-yl)methanone,

[189] (5-(naphthalen-2-yl)-1*H*-pyrrolo[3,2-*b*]pyridin-2-yl)(piperidin-1-yl)methanone,

[190] (5-(1*H*-indazol-6-yl)-1*H*-pyrrolo[3,2-*b*]pyridin-2-yl)(piperidin-1-yl)methanone,

[191] 2-(2-(piperidine-1-carbonyl)-1*H*-pyrrolo[3,2-*b*]pyridin-5-yl)isoindolin-1-one,

[192] (3-fluoroazetidin-1-yl)(5-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)pyridin-3-yl)methanone,

[193] *N*-(1-methyl-1H-pyrazol-3-yl)-5-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)nicotinamide,

[194] (7-((3-methoxyphenyl)thio)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[195] 3-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)-7,8-dihydro-1,6-naphthyridin-5(6*H*)-one,

[196] 2-(dimethylamino)-*N*-(5-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)pyridin-3-yl)acetamide,

[197] 3-methoxy-*N*-(5-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)pyridin-3-yl)propenamide,

[198] 2-oxo-*N*-(5-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)pyridin-3-yl)piperidine-4-carboxamide,

[199] 6-methyl-3-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)-7,8-dihydro-1,6-naphthyridin-5(6*H*)-one,

[200] *N*-(azetidin-3-yl)-5-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)nicotinamide,

[201] *N*-methylsulfonyl-5-[3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl]pyridine-3-carboxamide,

[202] *N*-(1-methylazetidin-3-yl)-5-[3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl]pyridine-3-carboxamide,

[203] 4-[5-[3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl]pyridine-3-carbonyl]piperazin-2-one,

[204] 4-[5-[3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl]pyridine-3-carbonyl]piperazine-2,6-dione,

[205] 3-fluoro-5-[3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl]pyridine-2-carbonitrile,

[206] (7-(6-(azetidin-1-yl)pyridin-3-yl)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[207] 3-methyl-6-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)pyrimidin-4(3*H*)-

one,

[208] (7-(6-(3-fluoroazetidin-1-yl)pyridin-3-yl)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[209] (7-(6-(3,3-difluoroazetidin-1-yl)pyridin-3-yl)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[210] (7-(6-(3-hydroxyazetidin-1-yl)pyridin-3-yl)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[211] 7-[[3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl]amino]-3,4-dihydro-2*H*-isoquinolin-1-one,

[212] 6-[[3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl]amino]isoindolin-1-one,

[213] (3-fluoroazetidin-1-yl)-[5-[3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl]-2-pyridyl]methanone,

[214] 2-azaspiro[3.3]heptan-2-yl-[5-[3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl]-2-pyridyl]methanone,

[215] (7-(6-(2-azabicyclo[2.2.1]heptan-2-yl)pyridin-3-yl)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[216] (7-(6-(2-azabicyclo[2.2.2]octan-2-yl)pyridin-3-yl)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[217] -(6-(7-azabicyclo[2.2.1]heptan-7-yl)pyridin-3-yl)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[218] (7-(6-(3-(dimethylamino)azetidin-1-yl)pyridin-3-yl)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[219] methyl 1-(5-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)pyridin-2-yl)azetidine-3-carboxylate,

[220] (7-(6-(2-azaspiro[3.3]heptan-2-yl)pyridin-3-yl)pyrazolo[1,5-*a*]pyridin-3-

yl)(piperidin-1-yl)methanone,

[221] (7-(6-(3-(hydroxymethyl)azetidin-1-yl)pyridin-3-yl)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[222] (7-(6-(7-azaspiro[3.5]nonan-7-yl)pyridin-3-yl)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[223] (7-(6-(6-azaspiro[3.4]octan-6-yl)pyridin-3-yl)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[224] 7-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)phthalazin-1(2*H*)-one,

[225] (6-hydroxy-2-azaspiro[3.3]heptan-2-yl)-[5-[3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl]-3-pyridyl]methanone,

[226] 2-oxa-7-azaspiro[3.5]nonan-7-yl-[5-[3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl]-3-pyridyl]methanone,

[227] (2-azabicyclo[2.2.1]heptan-2-yl)(7-phenylpyrazolo[1,5-*a*]pyridin-3-yl)methanone,

[228] (2-azabicyclo[2.2.2]octan-2-yl)(7-phenylpyrazolo[1,5-*a*]pyridin-3-yl)methanone,

[229] (7-azabicyclo[2.2.1]heptan-7-yl)(7-phenylpyrazolo[1,5-*a*]pyridin-3-yl)methanone,

[230] (3-hydroxyiminoazetidin-1-yl)-[5-[3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl]-3-pyridyl]methanone,

[231] 6-(3-(4-fluoropiperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)-2-methylisoindolin-1-one,

[232] 3-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)-6,7-dihydro-5*H*-pyrrolo[3,4-*b*]pyridin-5-one,

[233] 6-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)phthalazin-1(2*H*)-one,

[234] 6-(3-(4,4-difluoropiperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)isoindolin-1-one,

[235] 4-[[3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl]amino]-1*H*-pyrimidin-6-

one,

[236] 3-methyl-6-[[3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl]amino]pyrimidin-4-one,

[237] (3,3-difluoroazetidin-1-yl)-[5-[3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl]-2-pyridyl]methanone,

[238] [7-[(4-chlorophenyl)methylamino]pyrazolo[1,5-*a*]pyridin-3-yl]-(1-piperidyl)methanone,

[239] 4-chloro-*N*-[3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl]benzamide,

[240] 1,3,5-trimethyl-*N*-[3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl]pyrazole-4-sulfonamide,

[241] 5-fluoro-*N*-[3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl]pyridine-3-carboxamide,

[242] [7-[2-(4-chlorophenyl)ethylamino]pyrazolo[1,5-*a*]pyridin-3-yl]-(1-piperidyl)methanone,

[243] 3-fluoro-5-[3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl]pyridine-2-carboxylic acid,

[244] methyl 3-fluoro-5-[3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl]pyridine-2-carboxylate,

[245] 3-methyl-6-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)quinazolin-4(3*H*)-one,

[246] 2-methyl-6-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)-[1,2,4]triazolo[4,3-*a*]pyridin-3(2*H*)-one,

[247] 3-[3-fluoro-5-[3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl]-2-pyridyl]-4*H*-1,2,4-oxadiazol-5-one,

[248] [7-[6-(azetidine-1-carbonyl)-5-fluoro-3-pyridyl]pyrazolo[1,5-*a*]pyridin-3-yl]-(1-

piperidyl)methanone,

[249] [7-[5-fluoro-6-(morpholine-4-carbonyl)-3-pyridyl]pyrazolo[1,5-*a*]pyridin-3-yl]-(1-piperidyl)methanone,

[250] 3-fluoro-*N*-methyl-5-[3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl]pyridine-2-carboxamide,

[251] 3-methyl-7-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)quinazolin-4(3*H*)-one,

[252] 2-methyl-7-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)-[1,2,4]triazolo[4,3-*a*]pyridin-3(2*H*)-one,

[253] 3-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)benzaldehyde oxime,

[254] 2-fluoro-5-[3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl]benzonitrile,

[255] 3-methyl-6-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)pyrido[2,3-*d*]pyrimidin-4(3*H*)-one,

[256] 3-methyl-7-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)pyrido[3,2-*d*]pyrimidin-4(3*H*)-one,

[257] (7-(2-(3-fluoroazetidin-1-yl)pyridin-4-yl)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[258] 3-chloro-5-[3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl]pyridine-2-carboxylic acid,

[259] [7-(3-amino-1,2-benzoxazol-5-yl)pyrazolo[1,5-*a*]pyridin-3-yl]-(1-piperidyl)methanone,

[260] [7-(3-amino-1H-indazol-5-yl)pyrazolo[1,5-*a*]pyridin-3-yl]-(1-piperidyl)methanone,

[261] [7-(3-amino-1-methyl-indazol-5-yl)pyrazolo[1,5-*a*]pyridin-3-yl]-(1-piperidyl)methanone,

[262] 3-chloro-*N*-methyl-5-[3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-

yl]pyridine-2-carboxamide,

[263] [7-[5-fluoro-6-(5-methyl-1,2,4-oxadiazol-3-yl)-3-pyridyl]pyrazolo[1,5-*a*]pyridin-3-yl]-(1-piperidyl)methanone,

[264] (7-(2-chlorophenyl)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[265] (7-(5-bromo-2-fluoropyridin-3-yl)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[266] (7-(2,6-difluoropyridin-3-yl)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[267] (7-(2-chloropyrimidin-5-yl)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[268] 2-methyl-5-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)benzo[*d*]isoxazol-3(2*H*)-one,

[269] (7-(3-methoxybenzo[*d*]isoxazol-5-yl)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[270] 2-(dimethylamino)-5-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)nicotinonitrile,

[271] (7-(6-fluoropyridin-2-yl)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[272] (7-(2-chloro-6-(trifluoromethyl)pyridin-3-yl)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[273] (7-(2,6-difluoropyridin-4-yl)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[274] *N*-(4-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)phenyl)-2-(pyridin-3-yl)acetamide,

[275] 3-[2-fluoro-5-[3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl]phenyl]-4*H*-1,2,4-oxadiazol-5-one,

[276] [7-[4-fluoro-3-(5-methyl-1,2,4-oxadiazol-3-yl)phenyl]pyrazolo[1,5-*a*]pyridin-3-yl]-(1-piperidyl)methanone,

[277] [7-[2-(azetidine-1-carbonyl)pyrimidin-5-yl]pyrazolo[1,5-*a*]pyridin-3-yl]-(1-

piperidyl)methanone,

[278] *N*-(2,6-difluoro-4-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)phenyl)-2-(pyridin-3-yl)acetamide,

[279] (7-(3-chloro-5-fluorophenyl)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[280] 5,6-dimethyl-3-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)-5,6-dihydro-7*H*-pyrrolo[3,4-*b*]pyridin-7-one,

[281] (7-(6-chloro-5-fluoropyridin-3-yl)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[282] (7-(2,6-dichloropyridin-4-yl)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[283] (7-(5-chloro-2-fluoropyridin-3-yl)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[284] (7-(5-fluoropyridin-3-yl)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[285] 3-fluoro-4-[3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl]benzonitrile,

[286] [7-[6-(azetidine-1-carbonyl)-5-chloro-3-pyridyl]pyrazolo[1,5-*a*]pyridin-3-yl]-(1-piperidyl)methanone,

[287] *N*-(5-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)pyridin-2-yl)nicotinamide,

[288] (7-(5,6-difluoropyridin-3-yl)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[289] (7-(5-chloro-6-fluoropyridin-3-yl)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[290] 2,6-difluoro-4-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)benzonitrile,

[291] 3-fluoro-5-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)benzonitrile,

[292] (7-(4-bromophenyl)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[293] 5-[3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl]pyrimidine-2-carbonitrile,

[294] [7-(2-hydroxypyrimidin-5-yl)pyrazolo[1,5-*a*]pyridin-3-yl]-(1-piperidyl)methanone,

[295] 3-[3-fluoro-4-[3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl]phenyl]-4H-1,2,4-oxadiazol-5-one,

[296] [7-[2-fluoro-4-(5-methyl-1,2,4-oxadiazol-3-yl)phenyl]pyrazolo[1,5-*a*]pyridin-3-yl]-(1-piperidyl)methanone,

[297] 3-(5-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)pyridin-3-yl)-1,2,4-oxadiazol-5(4*H*)-one,

[298] (7-(5-chloro-2-fluoropyridin-4-yl)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[299] 3-(3-fluoro-5-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)phenyl)-1,2,4-oxadiazol-5(4*H*)-one,

[300] [7-[4-(2-methylpyrazol-3-yl)phenyl]pyrazolo[1,5-*a*]pyridin-3-yl]-(1-piperidyl)methanone,

[301] *N*-(3-chloro-5-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)pyridin-2-yl)nicotinamide,

[302] [7-[4-(3-furyl)phenyl]pyrazolo[1,5-*a*]pyridin-3-yl]-(1-piperidyl)methanone,

[303] [7-[3-fluoro-4-(5-methyl-1,2,4-oxadiazol-3-yl)phenyl]pyrazolo[1,5-*a*]pyridin-3-yl]-(1-piperidyl)methanone,

[304] 3-[2-fluoro-4-[3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl]phenyl]-4*H*-1,2,4-oxadiazol-5-one,

[305] 5-[4-[3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl]phenyl]pyrimidine-2-carbonitrile,

[306] [7-[4-(2-hydroxypyrimidin-5-yl)phenyl]pyrazolo[1,5-*a*]pyridin-3-yl]-(1-piperidyl)methanone,

[307] 5-[4-[3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl]phenyl]pyrimidine-2-carboxamide,

[308] 3-(5-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)pyrimidin-2-yl)oxazolidin-2-one,

[309] [7-(3-amino-1*H*-indazol-6-yl)pyrazolo[1,5-*a*]pyridin-3-yl]-(1-piperidyl)methanone,

[310] [7-(3-amino-1-methyl-indazol-6-yl)pyrazolo[1,5-*a*]pyridin-3-yl]-(1-piperidyl)methanone,

[311] *N*-(3-chloro-5-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)pyridin-2-yl)-2-(pyridin-3-yl)acetamide,

[312] 3-nitro-5-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)benzonitrile,

[313] (7-(6-bromopyridin-3-yl)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[314] (7-(6-chloropyridin-3-yl)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[315] (7-(6-chloro-2-fluoropyridin-3-yl)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[316] 3-(5-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)pyridin-2-yl)oxazolidin-2-one,

[317] [7-[2-(5-methyl-1,2,4-oxadiazol-3-yl)pyrimidin-5-yl]pyrazolo[1,5-*a*]pyridin-3-yl]-(1-piperidyl)methanone,

[318] (7-(5-nitropyridin-3-yl)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[319] (7-(5-(5-methyl-1,2,4-oxadiazol-3-yl)pyridin-3-yl)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[320] [7-(3-amino-1,2-benzoxazol-6-yl)pyrazolo[1,5-*a*]pyridin-3-yl]-(1-piperidyl)methanone,

[321] 3-[5-[3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl]pyrimidin-2-yl]-4*H*-1,2,4-oxadiazol-5-one,

[322] (7-(3-fluoro-5-(5-methyl-1,2,4-oxadiazol-3-yl)phenyl)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[323] 3-(3-fluoro-5-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)pyridin-2-yl)oxazolidin-2-one,

[324] [7-[4-(3,5-dimethylisoxazol-4-yl)phenyl]pyrazolo[1,5-*a*]pyridin-3-yl]-(1-piperidyl)methanone,

[325] (7-(2-fluoro-5-(1-methyl-1*H*-pyrazol-5-yl)pyridin-3-yl)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[326] *N*-(5-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)pyridin-3-yl)nicotinamide,

[327] *N*-(5-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)pyridin-3-yl)-2-(pyridin-3-yl)acetamide,

[328] (7-(3,5-difluoro-4-(5-methyl-1,2,4-oxadiazol-3-yl)phenyl)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[329] 3-(3-nitro-5-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)phenyl)-1,2,4-oxadiazol-5(4*H*)-one,

[330] (7-(3-(5-methyl-1,2,4-oxadiazol-3-yl)-5-nitrophenyl)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[331] 3-(2,6-difluoro-4-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)phenyl)-1,2,4-oxadiazol-5(4H)-one,

[332] piperidin-1-yl(7-(6-((2-(pyridin-3-yl)ethyl)amino)pyridin-3-yl)pyrazolo[1,5-*a*]pyridin-3-yl)methanone,

[333] 1,2-dimethyl-*N*-(5-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)pyridin-3-yl)-1*H*-imidazole-5-carboxamide,

[334] *N*-(5-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)pyridin-3-yl)pyrimidine-5-carboxamide,

[335] 5-fluoro-*N*-(5-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)pyridin-3-

yl)nicotinamide,

[336] (7-(6-fluoropyridin-3-yl)pyrazolo[1,5-*a*]pyridin-3-yl)(3-methylpiperidin-1-yl)methanone,

[337] (3-ethylpiperidin-1-yl)(7-(6-fluoropyridin-3-yl)pyrazolo[1,5-*a*]pyridin-3-yl)methanone,

[338] (7-(6-fluoropyridin-3-yl)pyrazolo[1,5-*a*]pyridin-3-yl)(3-(trifluoromethyl)piperidin-1-yl)methanone,

[339] 3-(5-(3-(3-(trifluoromethyl)piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)pyridin-2-yl)oxazolidin-2-one,

[340] *N*-(2-nitrobenzyl)-*N*-(4-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)phenyl)nicotinamide,

[341] (7-(3-fluoro-5-(1,2,4-oxadiazol-3-yl)phenyl)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[342] (7-(3-nitro-5-(1,2,4-oxadiazol-3-yl)phenyl)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[343] (7-(3-amino-5-(5-methyl-1,2,4-oxadiazol-3-yl)phenyl)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[344] (7-(6-(4-amino-*1H*-pyrazol-1-yl)pyridin-3-yl)pyrazolo[1,5-a]pyridin-3-yl)(piperidin-1-yl)methanone,

[345] (7-(3-(3-hydroxyazetidin-1-yl)-5-(isoxazol-4-yl)phenyl)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[346] 1-piperidyl-[7-[4-(1*H*-pyrazol-4-yl)phenyl]pyrazolo[1,5-*a*]pyridin-3-yl]methanone,

[347] 1-piperidyl-[7-[4-(3-thienyl)phenyl]pyrazolo[1,5-*a*]pyridin-3-yl]methanone,

[348] [7-[4-(5-methyl-1,3,4-oxadiazol-2-yl)phenyl]pyrazolo[1,5-*a*]pyridin-3-yl]-(1-piperidyl)methanone,

[349] 5-[4-[3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl]phenyl]-3*H*-1,3,4-oxadiazol-2-one,

[350] [7-[4-(1,3,4-oxadiazol-2-yl)phenyl]pyrazolo[1,5-*a*]pyridin-3-yl]-(1-piperidyl)methanone,

[351] [7-[4-(5-methylthiazol-2-yl)phenyl]pyrazolo[1,5-*a*]pyridin-3-yl]-(1-piperidyl)methanone,

[352] [7-[4-(1,2,4-oxadiazol-3-yl)phenyl]pyrazolo[1,5-*a*]pyridin-3-yl]-(1-piperidyl)methanone,

[353] 3-(5-(3-(3-methylpiperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)pyridin-2-yl)oxazolidin-2-one,

[354] 3-(5-(3-(3-ethylpiperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)pyridin-2-yl)oxazolidin-2-one,

[355] (7-(6-(4-nitro-1*H*-pyrazol-1-yl)pyridin-3-yl)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[356] (7-(2-(4-amino-1*H*-pyrazol-1-yl)-6-bromopyridin-4-yl)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[357] (7-(2-(3-hydroxyazetidin-1-yl)-6-(1-methyl-1*H*-pyrazol-5-yl)pyridin-4-yl)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[358] 7-[4-(1,2-dimethylimidazol-4-yl)phenyl]pyrazolo[1,5-*a*]pyridin-3-yl]-(1-piperidyl)methanone,

[359] [7-[4-(5-amino-1,2,4-oxadiazol-3-yl)phenyl]pyrazolo[1,5-*a*]pyridin-3-yl]-(1-piperidyl)methanone,

[360] 5-[5-[3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl]-2-pyridyl]-3*H*-1,3,4-oxadiazol-2-one,

[361] 1-piperidyl-[7-[4-[5-(trifluoromethyl)-1,2,4-oxadiazol-3-yl]phenyl]pyrazolo[1,5-

a]pyridin-3-yl]methanone,

[362] *N*-(3-fluoro-5-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)pyridin-2-yl)-2-(pyridin-3-yl)acetamide,

[363] (7-(5-bromo-2-(3-(hydroxymethyl)azetidin-1-yl)pyridin-3-yl)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[364] [7-[6-(5-methyl-1,3,4-oxadiazol-2-yl)-3-pyridyl]pyrazolo[1,5-*a*]pyridin-3-yl]-(1-piperidyl)methanone,

[365] 1-piperidyl-[7-[6-(2-thioxo-3*H*-1,3,4-oxadiazol-5-yl)-3-pyridyl]pyrazolo[1,5-*a*]pyridin-3-yl]methanone,

[366] (7-(2-(isoxazol-4-yl)-6-morpholinopyridin-4-yl)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[367] 3-(6-(1-methyl-1*H*-pyrazol-5-yl)-4-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)pyridin-2-yl)oxazolidin-2-one,

[368] 3-(6-(3,5-dimethylisoxazol-4-yl)-4-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)pyridin-2-yl)oxazolidin-2-one,

[369] (7-(2-(1-methyl-1*H*-pyrazol-5-yl)-6-morpholinopyridin-4-yl)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[370] 3-(5'-fluoro-4-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)-[2,3'-bipyridin]-6-yl)oxazolidin-2-one,

[371] (7-(2-(3,5-dimethylisoxazol-4-yl)-6-morpholinopyridin-4-yl)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[372] 3-(6-(2-methylpyrimidin-5-yl)-4-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)pyridin-2-yl)oxazolidin-2-one,

[373] 5-[3-fluoro-5-[3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl]-2-pyridyl]-3*H*-1,3,4-oxadiazol-2-one,

[374] (7-(5-(1,2,4-oxadiazol-3-yl)pyridin-3-yl)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[375] (7-(6-(3-(dimethylamino)azetidin-1-yl)-5'-fluoro-[2,3'-bipyridin]-4-yl)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[376] (7-(5'-fluoro-6-morpholino-[2,3'-bipyridin]-4-yl)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[377] (7-(2-(2-methylpyrimidin-5-yl)-6-morpholinopyridin-4-yl)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[378] 6-(3-(3-fluoropiperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)isoindolin-1-one,

[379] [7-[5-fluoro-6-(5-methyl-1,3,4-oxadiazol-2-yl)-3-pyridyl]pyrazolo[1,5-*a*]pyridin-3-yl]-(1-piperidyl)methanone,

[380] [7-[5-fluoro-6-(1,3,4-oxadiazol-2-yl)-3-pyridyl]pyrazolo[1,5-*a*]pyridin-3-yl]-(1-piperidyl)methanone,

[381] [7-[6-(3,5-dimethylisoxazol-4-yl)-5-fluoro-3-pyridyl]pyrazolo[1,5-*a*]pyridin-3-yl]-(1-piperidyl)methanone,

[382] 6-(3-(3,3-difluoropiperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)isoindolin-1-one,

[383] 3-(5-(3-(3-fluoropiperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)pyridin-2-yl)oxazolidin-2-one,

[384] 3-(5-(3-(3,3-difluoropiperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)pyridin-2-yl)oxazolidin-2-one,

[385] (*R*)-6-(3-(3-methylpiperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)isoindolin-1-one,

[386] (*S*)-6-(3-(3-methylpiperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)isoindolin-1-one,

[387] 6-(3-(3-methylpiperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)isoindolin-1-one,

[388] *N*-(5-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)pyridin-3-yl)-2-(6-(trifluoromethyl)pyridin-3-yl)acetamide,

[389] 2-phenyl-*N*-(5-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)pyridin-3-yl)acetamide,

[390] 6-(3-(2-azaspiro[3.3]heptane-2-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)isoindolin-1-one,

[391] 6-(3-(6-azaspiro[3.4]octane-6-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)isoindolin-1-one,

[392] 6-(3-(7-azaspiro[3.5]nonane-7-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)isoindolin-1-one,

[393] 6-(3-(3-ethylpiperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)isoindolin-1-one,

[394] [7-[5-fluoro-6-[5-(trifluoromethyl)-1,3,4-oxadiazol-2-yl]-3-pyridyl]pyrazolo[1,5-*a*]pyridin-3-yl]-(1-piperidyl)methanone,

[395] (7-(1-((1,2,4-oxadiazol-3-yl)methyl)-1*H*-pyrazol-4-yl)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[396] 3-((4-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)-1*H*-pyrazol-1-yl)methyl)-1,2,4-oxadiazol-5(4*H*)-one,

[397] (7-(2-(1-((1,2,4-oxadiazol-3-yl)methyl)-1*H*-pyrazol-4-yl)pyridin-4-yl)pyrazolo[1,5-*a*]pyridin-3-yl)(piperidin-1-yl)methanone,

[398] 6-(3-(3-(trifluoromethyl)piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)isoindolin-1-one,

[399] [7-[2-(3,5-dimethylisoxazol-4-yl)pyrimidin-5-yl]pyrazolo[1,5-*a*]pyridin-3-yl]-(1-piperidyl)methanone,

[400] 6-(3-(3-isopropylpiperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)isoindolin-1-

one,

[401] 6-(3-(1,2,3,6-tetrahydropyridine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)isoindolin-1-one,

[402] 2-(5-fluoropyridin-3-yl)-*N*-(5-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)pyridin-3-yl)acetamide,

[403] *N*-(5-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)pyridin-3-yl)-2-(pyrimidin-5-yl)acetamide,

[404] [7-[2-[5-(difluoromethyl)-1-oxo-1,3,4-thiadiazol-2-yl]pyrimidin-5-yl]pyrazolo[1,5-*a*]pyridin-3-yl]-(1-piperidyl)methanone,

[405] 6-(3-(6-azaspiro[3.5]nonane-6-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)isoindolin-1-one,

[406] 2-(4-chlorophenoxy)-*N*-(5-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)pyridin-3-yl)acetamide,

[407] *N*-[5-[3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl]-2-pyridyl]-2-pyrimidin-5-yl-acetamide,

[408] *N*-[5-[3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl]-2-pyridyl]-2-[6-(trifluoromethyl)-3-pyridyl]acetamide,

[409] 2-(5-fluoropyridin-3-yl)-*N*-(5-(3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)pyridin-2-yl)acetamide,

[410] 2-(4-chlorophenoxy)-*N*-[5-[3-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl]-2-pyridyl]acetamide,

[411] 6-(3-(6-fluoro-2-azaspiro[3.3]heptane-2-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)isoindolin-1-one,

[412] 6-(3-(6,6-difluoro-2-azaspiro[3.3]heptane-2-carbonyl)pyrazolo[1,5-*a*]pyridin-7-yl)isoindolin-1-one, and

[413] 3-hydroxy-5-[2-(piperidine-1-carbonyl)pyrazolo[1,5-*a*]pyridin-6-yl]pyridine-2-carbonitrile.

【Claim 16】

Use of a pharmaceutical composition comprising a heterocyclic compound, a hydrate thereof, a solvate thereof, or a pharmaceutically acceptable salt thereof of any one of claims 1 to 15 in the manufacture of a medicament for preventing or treating a 15-PGDH-related disease.

【Claim 17】

The use of Claim 16, wherein the 15-PGDH-related disease is one or more selected from the group consisting of an inflammatory disease (inflammatory bowel disease (ulcerative colitis, Crohn's disease), chronic obstructive pulmonary disease (COPD), Behcet's disease, acute liver injury, acute kidney injury, acute lung injury, sepsis, exacerbation of asthma and lung disease, peptic ulcer (ulcer caused by NSAIDs), vasculitis syndrome, non-alcoholic fatty liver disease (NASH), atopic dermatitis, psoriasis, interstitial cystitis, prostatitis syndrome), fibrosis (pulmonary fibrosis (idiopathic pulmonary fibrosis), renal fibrosis (glomerulosclerosis), cardiac fibrosis (myocardial fibrosis), oral fibrosis, deltoid fibrosis, liver fibrosis, myelofibrosis, scleroderma), autoimmune disease (systemic lupus erythematosus, rheumatoid arthritis, autoimmune hepatitis, severe combined immunodeficiency syndrome (SCID)), ophthalmic disease (dry eye, conjunctivitis, keratitis), thrombocytopenia (drug-induced thrombocytopenia, autoimmune thrombocytopenia, idiopathic thrombocytopenia, thrombocytopenia due to viral infection), myopathy (muscular dystrophy, muscle damage), anemia (aplastic anemia, anemia of chronic disease, Fanconi anemia, beta-thalassemia or anemia of unknown cause), circulatory disease (cardiac disease (angina pectoris, heart failure, myocardial infarction), kidney disease (chronic kidney disease, renal failure), stroke,

pulmonary hypertension, peripheral circulatory disorder), nerve cell death (psychiatric disorders, neurodegenerative diseases, nerve injuries), cytopenia (immune cytopenia, neutropenia, lymphopenia), osteoporosis, fracture, leukemia (acute myeloid leukemia (AML), acute lymphoblastic leukemia (ALL), chronic myeloid leukemia (CML)), lymphoma (Hodgkin's lymphoma, non-Hodgkin's lymphoma), radiation exposure toxicity, 15-PGDH expressing cancer, multiple myeloma, paroxysmal nocturnal hemoglobinuria (PNH), pure red cell aplasia, megakaryocytosis, Wiskott-Aldrich syndrome, sickle cell disease, Hurler syndrome, adrenoleukodystrophy, metachromatic leukodystrophy, myelodysplasia, Duchenne muscular dystrophy, solid tumors, chronic granulomatous disease, systemic sclerosis, scars, wounds, otologic diseases (vertigo, tinnitus, balance disorders), hair loss, skin aging, periodontal disease, diabetes, stem cell and bone marrow transplantation or organ transplantation, cervical ripening, Alzheimer's disease, and Parkinson's disease.

【Claim 18】

A pharmaceutical composition comprising a heterocyclic compound, a hydrate thereof, a solvate thereof, or a pharmaceutically acceptable salt thereof of any one of claims 1 to 15, and a pharmaceutically acceptable additive.