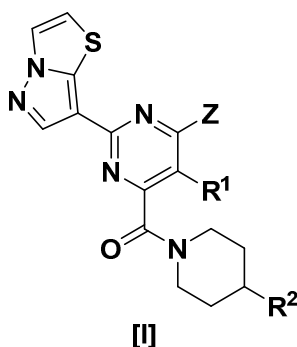


CLAIMS

1. A pyrazolothiazole compound represented by the formula [I]:

5

[Formula 1]



wherein,

R^1 is hydrogen, alkyl or alkoxy;

Z is $-OR^3$ or $-NR^4R^5$;

10

in which

R^3 is alkyl, alkyl substituted with cycloalkyl, cycloalkyl, aryl or heteroaryl,

R^4 is hydrogen or alkyl;

15

R^5 is alkyl, cycloalkyl or saturated heterocyclic group, said alkyl and cycloalkyl in R^5 is optionally substituted with one or two groups selected from the group consisting of the following (1) to (6):

(1) hydroxy,

20

(2) alkoxy, and difluoroalkoxy,

(3) cycloalkyl, cycloalkyl substituted with (difluoroalkoxy)alkyl, and cycloalkyl substituted with alkoxyalkyl,

25

(4) saturated heterocyclic group optionally substituted with (difluoroalkoxy)alkyl, (5) aryl, aryl

substituted with halogen, and aryl
substituted with alkoxy, and

(6) nitrile, and

5 said saturated heterocyclic group in R⁵
is optionally substituted with one or two
groups selected from the group consisting of
the following (1) to (3):

(1) alkyl,

(2) alkylcarbonyl, and

10 (3) alkoxy carbonyl;

R² is hydroxy or -NHR⁸,

in which

R⁸ is heteroaryl, heteroaryl substituted
with halogen, heteroaryl substituted with alkyl,
15 -COL¹, -COOL² or -SO₂L³,

said L¹ is a group selected from the group
consisting of the following (1) to (5):

(1) alkyl, monohaloalkyl, dihaloalkyl,
trihaloalkyl, and alkyl substituted with
20 alkoxy,

(2) cycloalkyl,

(3) aryl,

(4) heteroaryl, and

(5) dialkylamino, and cycloalkylamino,

25 said L² is a group selected from the group
consisting of the following (1) to (3):

(1) alkyl, monohaloalkyl, dihaloalkyl,
trihaloalkyl, and alkyl substituted with
alkoxy,

30 (2) cycloalkyl, and

(3) dialkylaminoalkyl, and

said L³ is alkyl or cycloalkyl,
or a pharmaceutically acceptable salt thereof, or a solvate

thereof.

2. The pyrazolothiazole compound according to claim 1 or a pharmaceutically acceptable salt thereof, or a solvate thereof, wherein R^1 is hydrogen.

3. The pyrazolothiazole compound according to claim 2 or a pharmaceutically acceptable salt thereof, or a solvate thereof, wherein

10 Z is $-NR^4R^5$;

in which

R^4 is hydrogen,

R^5 is alkyl or cycloalkyl,

15 said alkyl and cycloalkyl in R^5 are optionally substituted with a group selected from the group consisting of the following (1) to (3):

(1) hydroxy,

(2) alkoxy, and

(3) cycloalkyl,

20 R^2 is hydroxy or $-NHR^8$,

R^8 is heteroaryl, heteroaryl substituted with halogen, heteroaryl substituted with alkyl, $-COL^1$ or $-COOL^2$,

said L^1 is a group selected from the group consisting of the following (1) to (4):

25 (1) alkyl, monohaloalkyl, dihaloalkyl, trihaloalkyl, and alkyl substituted with alkoxy,

(2) cycloalkyl,

(3) aryl, and

(4) heteroaryl, and

30 said L^2 is alkyl, monohaloalkyl, dihaloalkyl, trihaloalkyl, alkyl substituted with alkoxy or cycloalkyl.

4. The pyrazolothiazole compound according to claim

3 or a pharmaceutically acceptable salt thereof, or a solvate thereof, wherein

R⁵ is alkyl, alkyl substituted with hydroxy, alkyl substituted with cyclopropyl or alkyl substituted with alkoxy, and

R² is -NHR⁸.

5. The pyrazolothiazole compound according to claim 3 or a pharmaceutically acceptable salt thereof, or a solvate thereof, wherein

R⁵ is alkyl having 2 to 6 carbon atoms or alkyl substituted with cyclopropyl,

R² is -NHR⁸,

R⁸ is -COL¹ or -COOL²,

15 said L¹ is alkyl having 2 to 6 carbon atoms or cyclopropyl, and

said L² is alkyl or cyclopropyl.

6. The pyrazolothiazole compound according to claim 20 1 which is any one of the following (1) to (135):

(1) N-(1-{[6-{[(1S)-1-cyclopropylethyl]amino}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)cyclopropanecarboxamide,

(2) N-(1-{[6-{[(1S)-1-cyclopropylethyl]amino}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)acetamide,

(3) N-(1-{[6-{[(2S)-3,3-dimethylbutan-2-yl]amino}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)cyclopropanecarboxamide,

30 (4) N-(1-{[6-{[(2S)-3,3-dimethylbutan-2-yl]amino}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)acetamide,

- (5) N-(1-{[6-{[(1S,2S)-2-(difluoromethoxy)cyclopentyl](methyl)amino}]-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl}carbonyl)piperidin-4-yl)cyclopropanecarboxamide,
- 5 (6) N-(1-{[6-{[(2S)-3,3-dimethylbutan-2-yl]amino}]-5-methyl-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl}carbonyl)piperidin-4-yl)acetamide,
- (7) N-(1-{[6-{[(2S)-3,3-dimethylbutan-2-yl]amino}]-5-methyl-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl}carbonyl)piperidin-4-yl)cyclopropanecarboxamide,
- 10 (8) N-[1-({6-[(1-{[(difluoromethoxy)methyl]cyclopropyl}methyl)amino]}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl}carbonyl)piperidin-4-yl]cyclopropanecarboxamide,
- 15 (9) N-[1-({6-[(1-{[(difluoromethoxy)methyl]cyclobutyl}methyl)amino]}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl}carbonyl)piperidin-4-yl]cyclopropanecarboxamide,
- (10) N-[1-({6-[(1-{[(difluoromethoxy)methyl]cyclopentyl}methyl)amino]}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl}carbonyl)piperidin-4-yl]cyclopropanecarboxamide,
- 20 (11) N-[1-({6-[(1-{[(difluoromethoxy)methyl]tetrahydro-2H-pyran-4-yl}methyl)amino]}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl}carbonyl)piperidin-4-yl]cyclopropanecarboxamide,
- 25 (12) N-(1-{[6-{[(1S)-1-cyclopropylethyl]amino}]-5-methyl-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl}carbonyl)piperidin-4-yl)cyclopropanecarboxamide,
- 30 (13) N-(1-{[6-{[(1S)-1-cyclopropylethyl]amino}]-5-methyl-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl}carbonyl)piperidin-4-yl)acetamide,

- (14) N-(1-{[6-{[(1S,2S)-2-(difluoromethoxy)cyclopentyl]amino}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)cyclopropanecarboxamide,
- 5 (15) N-[1-({6-[(2,2-dimethylpropyl) amino]-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl}carbonyl)piperidin-4-yl]cyclopropanecarboxamide,
- (16) N-(1-{[6-{[(2R)-3,3-dimethylbutan-2-yl]amino}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)cyclopropanecarboxamide,
- 10 (17) N-(1-{[6-{[(2S)-1-(difluoromethoxy)propan-2-yl]amino}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)cyclopropanecarboxamide,
- (18) N-(1-{[6-{[(1S)-1-cyclopropylethyl]amino}-5-methyl-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)-2,2-difluoroacetamide,
- 15 (19) N-(1-{[6-{[(1S,2S)-2-methoxycyclopentyl]amino}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)cyclopropanecarboxamide,
- 20 (20) [6-{[(1S)-1-cyclopropylethyl]amino}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl](4-hydroxypiperidin-1-yl)methanone,
- (21) 1-fluoro-2-methylpropan-2-yl (1-{[6-{[(1S)-1-cyclopropylethyl]amino}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)carbamate,
- 25 (22) methyl (1-{[6-{[(2S)-3,3-dimethylbutan-2-yl]amino}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)carbamate,
- (23) [6-{[(2S)-3,3-dimethylbutan-2-yl]amino}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl](4-hydroxypiperidin-1-yl)methanone,
- 30 (24) methyl (1-{[6-{[(2R)-3-methylbutan-2-yl]amino}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}

- piperidin-4-yl) carbamate,
- (25) methyl (1-{[6-{[(2S)-3-methylbutan-2-yl]amino}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl) carbamate,
- 5 (26) methyl (1-{[6-{[(1S)-1-cyclopropylethyl]amino}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl) carbamate,
- (27) ethyl (1-{[6-{[(1S)-1-cyclopropylethyl]amino}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}
- 10 piperidin-4-yl) carbamate,
- (28) propan-2-yl (1-{[6-{[(2R)-3,3-dimethylbutan-2-yl]amino}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl) carbamate,
- (29) N-(1-{[6-{[(1S)-1-cyclopropylethyl]amino}-2-
- 15 (pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl) benzamide,
- (30) N-(1-{[6-{[(1S)-1-cyclopropylethyl]amino}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl) pyridine-3-carboxamide,
- 20 (31) N-(1-{[6-{[(1S)-1-cyclopropylethyl]amino}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl) thiophene-2-carboxamide,
- (32) N-(1-{[6-{[(1S)-1-cyclopropylethyl] (methyl) amino}-2-(pyrazolo[5,1-
- 25 b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl) cyclopropanecarboxamide,
- (33) 1-cyclopropyl-3-(1-{[6-{[(1S)-1-cyclopropylethyl]amino}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl) urea,
- 30 (34) [6-{[(1S)-1-cyclopropylethyl] (methyl) amino}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl][4-(pyrimidin-2-ylamino)piperidin-1-yl]methanone,

- (35) N-(1-{[6-(tert-butylamino)-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)cyclopropanecarboxamide,
- (36) N-[1-({6-[(1-methylcyclopropyl)amino]-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl}carbonyl)piperidin-4-yl]cyclopropanecarboxamide,
- (37) N-[1-({6-[(1-methoxy-2-methylpropan-2-yl)amino]-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl}carbonyl)piperidin-4-yl]cyclopropanecarboxamide,
- 10 (38) methyl (1-{[6-[(2R)-3,3-dimethylbutan-2-yl]amino]-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl}carbonyl}piperidin-4-yl)carbamate,
- (39) ethyl (1-{[6-[(2R)-3,3-dimethylbutan-2-yl]amino]-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl}carbonyl}piperidin-4-yl)carbamate,
- 15 (40) propan-2-yl (1-{[6-[(1S)-1-cyclopropylethyl]amino]-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl}carbonyl}piperidin-4-yl)carbamate,
- 20 (41) N-(1-{[6-[(1S)-1-cyclopropylethyl](methyl)amino]-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl}carbonyl}piperidin-4-yl)benzamide,
- (42) N-(1-{[6-(cyclopropylmethoxy)-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)cyclopropanecarboxamide,
- 25 (43) N-[1-({6-[(3,3-dimethylbutan-2-yl)oxy]-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl}carbonyl)piperidin-4-yl]cyclopropanecarboxamide,
- 30 (44) N-(1-{[6-(cyclobutyloxy)-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)cyclopropanecarboxamide,

- (45) N-(1-{[6-(cyclopentyloxy)-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)cyclopropanecarboxamide,
- (46) N-(1-{[6-{[(1R)-1-cyclopropylethyl]amino}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)cyclopropanecarboxamide,
- (47) N-[1-({6-[(1-hydroxy-2-methylpropan-2-yl)amino]-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl}carbonyl)piperidin-4-yl]cyclopropanecarboxamide,
- 10 (48) [6-{[(1S)-1-cyclopropylethyl]amino}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl][4-(1,2-oxazol-3-ylamino)piperidin-1-yl]methanone,
- (49) [6-{[(1S)-1-cyclopropylethyl]amino}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl][4-(1,3-
- 15 thiazol-2-ylamino)piperidin-1-yl]methanone,
- (50) [6-{[(1S)-1-cyclopropylethyl]amino}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]{4-[(3-methyl-1,2-oxazol-5-yl)amino]piperidin-1-yl}methanone,
- (51) N-(1-{[6-{[(2S)-1-hydroxy-3,3-dimethylbutan-2-yl]amino}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)cyclopropanecarboxamide,
- 20 (52) [6-(tert-butylamino)-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl](4-hydroxypiperidin-1-yl)methanone,
- 25 (53) methyl (1-{[6-(tert-butylamino)-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)carbamate,
- (54) propan-2-yl (1-{[6-(tert-butylamino)-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-
- 30 yl]carbonyl}piperidin-4-yl)carbamate,
- (55) methyl [1-({6-[(1-hydroxy-2-methylpropan-2-yl)amino]-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl}carbonyl)piperidin-4-yl]carbamate,

- (56) [6-{{(2R)-3,3-dimethylbutan-2-yl}amino}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl](4-hydroxypiperidin-1-yl)methanone,
- (57) methyl (1-{{6-{{(2S)-1-hydroxy-3,3-dimethylbutan-2-yl}amino}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl}carbonyl}piperidin-4-yl)carbamate,
- (58) methyl [1-{{6-{{(3,3-dimethylbutan-2-yl)oxy}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl}carbonyl}piperidin-4-yl}carbamate,
- 10 (59) methyl (1-{{6-(cyclobutyloxy)-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl}carbonyl}piperidin-4-yl)carbamate,
- (60) N-(1-{{6-{{(1S)-1-cyclopropylethyl}amino}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl}carbonyl}piperidin-4-yl)methanesulfonamide,
- 15 (61) N-(1-{{6-{{(1S)-1-cyclopropylethyl}amino}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl}carbonyl}piperidin-4-yl)cyclopropanesulfonamide,
- (62) N-(1-{{6-{{(1S)-1-cyclopropylethyl}amino}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl}carbonyl}piperidin-4-yl)ethanesulfonamide,
- 20 (63) N-(1-{{6-(tert-butylamino)-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl}carbonyl}piperidin-4-yl)-2-methylpropanamide,
- 25 (64) N-(1-{{6-(tert-butylamino)-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl}carbonyl}piperidin-4-yl)-2,2-difluoroacetamide,
- (65) ethyl (1-{{6-(tert-butylamino)-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl}carbonyl}piperidin-4-yl)carbamate,
- 30 (66) [6-(tert-butylamino)-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl][4-(pyridin-2-ylamino)piperidin-1-yl]methanone,

- (67) ethyl (1-{[6-{[(1R)-1-cyclopropylethyl]amino}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)carbamate,
- (68) [6-(tert-butylamino)-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl][4-(1,3-thiazol-2-ylamino)piperidin-1-yl]methanone,
- (69) [6-(tert-butylamino)-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl][4-(pyrimidin-2-ylamino)piperidin-1-yl]methanone,
- 10 (70) methyl [1-({6-[(2-methylbutan-2-yl)amino]-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl}carbonyl)piperidin-4-yl]carbamate,
- (71) (4-hydroxypiperidin-1-yl)[6-(pentan-3-ylamino)-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]methanone,
- 15 (72) propyl (1-{[6-(tert-butylamino)-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)carbamate,
- (73) propyl (1-{[6-{[(1R)-1-cyclopropylethyl]amino}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)carbamate,
- 20 (74) propyl (1-{[6-{[(1S)-1-cyclopropylethyl]amino}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)carbamate,
- (75) propyl (1-{[6-{[(2R)-3,3-dimethylbutan-2-yl]amino}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)carbamate,
- 25 (76) propyl (1-{[6-{[(2S)-3,3-dimethylbutan-2-yl]amino}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)carbamate,
- 30 (77) methyl [1-({6-[(2,2-dimethylpropyl)amino]-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl}carbonyl)piperidin-4-yl]carbamate,

- (78) 2-methoxyethyl (1-{[6-{[(1R)-1-cyclopropylethyl]amino}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)carbamate,
- (79) 2-methoxyethyl (1-{[6-{[(1S)-1-cyclopropylethyl]amino}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)carbamate,
- (80) 2-methoxyethyl (1-{[6-{[(2R)-3,3-dimethylbutan-2-yl]amino}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)carbamate,
- (81) 2-methoxyethyl (1-{[6-{[(2S)-3,3-dimethylbutan-2-yl]amino}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)carbamate,
- (82) N-(1-{[6-{[(1R)-1-cyclopropylethyl]amino}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)-2-methoxyacetamide,
- (83) N-(1-{[6-{[(2R)-3,3-dimethylbutan-2-yl]amino}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)-2-methoxyacetamide,
- (84) methyl [1-({6-[[1-(methoxymethyl)cyclopropyl]methyl}(methyl)amino]-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)carbamate,
- (85) 2,2-difluoroethyl (1-{[6-{[(1R)-1-cyclopropylethyl]amino}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)carbamate,
- (86) 2,2-difluoroethyl (1-{[6-{[(2R)-3,3-dimethylbutan-2-yl]amino}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)carbamate,
- (87) 2,2-difluoroethyl (1-{[6-{[(1S)-1-cyclopropylethyl]amino}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)carbamate,

- (88) 2,2-difluoroethyl (1-{[6-{[(2S)-3,3-dimethylbutan-2-yl]amino}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)carbamate,
- (89) tert-butyl (1-{[6-{[(2R)-3,3-dimethylbutan-2-yl]amino}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)carbamate,
- (90) 2-methoxyethyl (1-{[6-(tert-butylamino)-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)carbamate,
- (91) 2-(dimethylamino)ethyl (1-{[6-{[(2R)-3,3-dimethylbutan-2-yl]amino}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)carbamate,
- (92) 2,2,2-trifluoroethyl (1-{[6-{[(1R)-1-cyclopropylethyl]amino}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)carbamate,
- (93) 2,2,2-trifluoroethyl (1-{[6-{[(2R)-3,3-dimethylbutan-2-yl]amino}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)carbamate,
- (94) 2-methoxy-N-(1-{[6-(pentan-3-ylamino)-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)acetamide,
- (95) N-(1-{[6-(2-ethylbutoxy)-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)cyclopropanecarboxamide,
- (96) methyl (1-{[6-(pentan-3-yloxy)-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)carbamate,
- (97) methyl (1-{[6-(pentan-3-ylamino)-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)carbamate,
- (98) N-[1-({6-[(2-ethylbutyl)amino]-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl}carbonyl)piperidin-4-yl]cyclopropanecarboxamide,

- (99) N-(1-{[6-(pentan-3-yloxy)-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)cyclopropanecarboxamide,
- (100) methyl [1-({6-[methyl(pentan-3-yl)amino]-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl}carbonyl)piperidin-4-yl]carbamate,
- (101) methyl (1-{[6-{[(2R)-3,3-dimethylbutan-2-yl](methyl)amino}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)carbamate,
- 10 (102) N-(1-{[6-(2-ethylbutoxy)-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)propanamide,
- (103) N-(1-{[6-{[(2R)-3,3-dimethylbutan-2-yl](methyl)amino}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)propanamide,
- 15 (104) N-[1-({6-[methyl(pentan-3-yl)amino]-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl)piperidin-4-yl]propanamide,
- (105) [6-{[(2R)-3,3-dimethylbutan-2-yl]amino}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]{4-[(3-fluoropyridin-2-yl)amino]piperidin-1-yl}methanone,
- 20 (106) N-[1-({6-[(2-methoxy-2-methylpropyl)amino]-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl)piperidin-4-yl]propanamide,
- 25 (107) (4-hydroxypiperidin-1-yl){6-[methyl(pentan-3-yl)amino]-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl}methanone,
- (108) N-(1-{[6-{[(2R)-3-methylbutan-2-yl]amino}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)propanamide,
- 30 (109) N-(1-{[6-{[(2R)-3-methylbutan-2-yl]amino}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)cyclopropanecarboxamide,

- (110) N-(1-{{6-{{(2S)-3-methylbutan-2-yl} amino}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl}carbonyl}piperidin-4-yl)cyclopropanecarboxamide,
- (111) N-(1-{{6-(pentan-3-ylamino)-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl}carbonyl}piperidin-4-yl)cyclopropanecarboxamide,
- (112) methyl [1-{{6-{{(2S)-butan-2-ylamino}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl}carbonyl}piperidin-4-yl}carbamate,
- (113) methyl [1-{{6-{{(2R)-butan-2-ylamino}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl}carbonyl}piperidin-4-yl}carbamate,
- (114) N-[1-{{6-{{(1-methylcyclopropyl) amino}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl}carbonyl}piperidin-4-yl}propanamide,
- (115) [6-{{(2R)-3,3-dimethylbutan-2-yl} amino}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]{4-{{5-fluoropyridin-2-yl} amino}piperidin-1-yl}methanone,
- (116) 2-methyl-N-[1-{{6-{{(2-methylbutan-2-yl) amino}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl}carbonyl}piperidin-4-yl}propanamide,
- (117) N-[1-{{6-{{(2S)-butan-2-ylamino}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl}carbonyl}piperidin-4-yl}propanamide,
- (118) methyl [1-{{6-{{tert-butyl(methyl) amino}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl}carbonyl}piperidin-4-yl}carbamate,
- (119) cyclopropyl (1-{{6-{{(1S)-1-cyclopropylethyl} amino}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl}carbonyl}piperidin-4-yl}carbamate,
- (120) cyclopropyl (1-{{6-{{tert-butylamino}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl}carbonyl}piperidin-4-yl}carbamate,

- (121) 2,2-difluoro-N-(1-([6-([(2R)-3-methylbutan-2-yl]amino)-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl)piperidin-4-yl)acetamide,
- (122) 3-[1-([6-[(2,2-dimethylpropyl)amino]-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl)piperidin-4-yl]-1,1-dimethylurea,
- (123) 3-(1-([6-([(1R)-1-cyclopropylethyl]amino)-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl)piperidin-4-yl)-1,1-dimethylurea,
- 10 (124) propan-2-yl [1-([6-[(3-methyloxetan-3-yl)amino]-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl)piperidin-4-yl]carbamate,
- (125) methyl [1-([6-[(dicyclopropylmethyl)amino]-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl)piperidin-4-yl]carbamate,
- 15 (126) methyl (1-([6-phenoxy-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl)piperidin-4-yl)carbamate,
- (127) tert-butyl 4-([6-([4-[(methoxycarbonyl)amino]piperidin-1-yl]carbonyl)-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]amino)piperidine-1-carboxylate,
- 20 (128) methyl (1-([6-(piperidin-4-ylamino)-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl)piperidin-4-yl)carbamate,
- 25 (129) methyl [1-([6-[(1-cyanocyclopropyl)amino]-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl)piperidin-4-yl]carbamate,
- (130) methyl (1-([6-([(1S)-1-cyclopropylethyl]amino)-5-methoxy-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl)piperidin-4-yl)carbamate,
- 30

(131) methyl (1-{[6-{[(2R)-3,3-dimethylbutan-2-yl]amino}-5-methoxy-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)carbamate,

(132) methyl [1-({6-[(2S)-butan-2-ylamino]-5-methoxy-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl}carbonyl)piperidin-4-yl]carbamate,

(133) methyl (1-{[6-{[(1S)-1-cyclopropylethyl]amino}-5-ethoxy-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)carbamate,

(134) methyl (1-{[6-{[(2R)-3,3-dimethylbutan-2-yl]amino}-5-ethoxy-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)carbamate, and

(135) methyl (1-{[2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)-6-(pyridin-3-yloxy)pyrimidin-4-yl]carbonyl}piperidin-4-yl)carbamate,

or a pharmaceutically acceptable salt thereof, or a solvate thereof.

7. The pyrazolothiazole compound according to claim 1 which is any one of the following (1) to (58):

(1) N-(1-{[6-{[(1S)-1-cyclopropylethyl]amino}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)cyclopropanecarboxamide,

(2) N-(1-{[6-{[(2S)-3,3-dimethylbutan-2-yl]amino}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)cyclopropanecarboxamide,

(3) N-(1-{[6-{[(1S,2S)-2-(difluoromethoxy)cyclopentyl](methyl)amino}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)cyclopropanecarboxamide,

(4) N-(1-{[6-{[(2S)-3,3-dimethylbutan-2-yl]amino}-5-methyl-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)cyclopropanecarboxamide,

- (5) N-[1-({6-[(1-
[(difluoromethoxy)methyl]cyclopropyl)methyl]amino}-2-
(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-
4-yl}carbonyl)piperidin-4-yl]cyclopropanecarboxamide,
- 5 (6) N-[1-({6-[(1-
[(difluoromethoxy)methyl]cyclobutyl)methyl]amino}-2-
(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-
4-yl}carbonyl)piperidin-4-yl]cyclopropanecarboxamide,
- (7) N-[1-({6-[(1-
10 [(difluoromethoxy)methyl]cyclopentyl)methyl]amino}-2-
(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-
4-yl}carbonyl)piperidin-4-yl]cyclopropanecarboxamide,
- (8) N-[1-({6-[(4-[(difluoromethoxy)methyl]tetrahydro-
2H-pyran-4-yl)methyl]amino}-2-(pyrazolo[5,1-b][1,3]thiazol-
15 7-yl)pyrimidin-4-yl}carbonyl)piperidin-4-
yl]cyclopropanecarboxamide,
- (9) N-(1-{[6-{[(1S)-1-cyclopropylethyl]amino}-5-
methyl-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-
yl}carbonyl)piperidin-4-yl]cyclopropanecarboxamide,
- 20 (10) N-(1-{[6-{[(1S,2S)-2-
(difluoromethoxy)cyclopentyl]amino}-2-(pyrazolo[5,1-
b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl)piperidin-4-
yl]cyclopropanecarboxamide,
- (11) N-[1-({6-[(2,2-dimethylpropyl)amino]-2-
25 (pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-
yl}carbonyl)piperidin-4-yl]cyclopropanecarboxamide,
- (12) N-(1-{[6-{[(2R)-3,3-dimethylbutan-2-yl]amino}-2-
(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}
piperidin-4-yl]cyclopropanecarboxamide,
- 30 (13) N-(1-{[6-{[(2S)-1-(difluoromethoxy)propan-2-
yl]amino}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-
yl]carbonyl)piperidin-4-yl]cyclopropanecarboxamide,

- (14) methyl (1-{[6-{[(1S)-1-cyclopropylethyl]amino}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)carbamate,
- (15) ethyl (1-{[6-{[(1S)-1-cyclopropylethyl]amino}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)carbamate,
- (16) N-(1-{[6-{[(1S)-1-cyclopropylethyl]amino}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)benzamide,
- (17) N-(1-{[6-{[(1S)-1-cyclopropylethyl](methyl)amino}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)cyclopropanecarboxamide,
- (18) propan-2-yl (1-{[6-{[(1S)-1-cyclopropylethyl]amino}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)carbamate,
- (19) N-(1-{[6-(cyclopropylmethoxy)-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)cyclopropanecarboxamide,
- (20) N-[1-({6-[(3,3-dimethylbutan-2-yl)oxy]-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)cyclopropanecarboxamide,
- (21) N-(1-{[6-(cyclobutylloxy)-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)cyclopropanecarboxamide,
- (22) N-[1-({6-[(1-hydroxy-2-methylpropan-2-yl)amino]-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)cyclopropanecarboxamide,
- (23) [6-{[(1S)-1-cyclopropylethyl]amino}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl][4-(1,3-thiazol-2-ylamino)piperidin-1-yl]methanone,

- (24) N-(1-{[6-{[(2S)-1-hydroxy-3,3-dimethylbutan-2-yl]amino}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)cyclopropanecarboxamide,
- (25) methyl (1-{[6-(tert-butylamino)-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)carbamate,
- (26) propan-2-yl (1-{[6-(tert-butylamino)-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)carbamate,
- (27) methyl [1-({6-[(1-hydroxy-2-methylpropan-2-yl)amino]-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)carbamate,
- (28) [6-{[(2R)-3,3-dimethylbutan-2-yl]amino}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl](4-hydroxypiperidin-1-yl)methanone,
- (29) methyl (1-{[6-{[(2S)-1-hydroxy-3,3-dimethylbutan-2-yl]amino}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)carbamate,
- (30) methyl [1-({6-[(3,3-dimethylbutan-2-yl)oxy]-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)carbamate,
- (31) methyl (1-{[6-(cyclobutyloxy)-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)carbamate,
- (32) N-(1-{[6-{[(1S)-1-cyclopropylethyl]amino}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)cyclopropanesulfonamide,
- (33) N-(1-{[6-{[(1S)-1-cyclopropylethyl]amino}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)ethanesulfonamide,
- (34) ethyl (1-{[6-(tert-butylamino)-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)carbamate,

- (35) [6-(tert-butylamino)-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl][4-(pyridin-2-ylamino)piperidin-1-yl]methanone,
- (36) propyl (1-{[6-(tert-butylamino)-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)carbamate,
- (37) N-(1-{[6-{[(2R)-3,3-dimethylbutan-2-yl]amino}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)-2-methoxyacetamide,
- 10 (38) 2,2-difluoroethyl (1-{[6-{[(1S)-1-cyclopropylethyl]amino}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)carbamate,
- (39) 2,2-difluoroethyl (1-{[6-{[(2S)-3,3-dimethylbutan-2-yl]amino}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)carbamate,
- 15 (40) tert-butyl (1-{[6-{[(2R)-3,3-dimethylbutan-2-yl]amino}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)carbamate,
- (41) 2-methoxyethyl (1-{[6-(tert-butylamino)-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)carbamate,
- 20 (42) 2-(dimethylamino)ethyl (1-{[6-{[(2R)-3,3-dimethylbutan-2-yl]amino}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)carbamate,
- 25 (43) 2,2,2-trifluoroethyl (1-{[6-{[(1R)-1-cyclopropylethyl]amino}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)carbamate,
- (44) 2,2,2-trifluoroethyl (1-{[6-{[(2R)-3,3-dimethylbutan-2-yl]amino}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)carbamate,
- 30 (45) methyl (1-{[6-(pentan-3-yloxy)-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)carbamate,

- (46) N-[1-({6-[(2-ethylbutyl)amino]-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl}carbonyl)piperidin-4-yl]cyclopropanecarboxamide,
- (47) N-(1-{[6-(pentan-3-yloxy)-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)cyclopropanecarboxamide,
- (48) methyl[1-({6-[(2S)-butan-2-ylamino]-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl}carbonyl)piperidin-4-yl]carbamate,
- 10 (49) methyl[1-({6-[(2R)-butan-2-ylamino]-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl}carbonyl)piperidin-4-yl]carbamate,
- (50) N-[1-({6-[(1-methylcyclopropyl)amino]-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl}carbonyl)piperidin-4-yl]propanamide,
- 15 (51) methyl[1-({6-[tert-butyl(methyl)amino]-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl}carbonyl)piperidin-4-yl]carbamate,
- (52) cyclopropyl(1-{[6-(tert-butylamino)-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)carbamate,
- 20 (53) propan-2-yl[1-({6-[(3-methyloxetan-3-yl)amino]-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl}carbonyl)piperidin-4-yl]carbamate,
- 25 (54) methyl[1-({6-[(1-cyanocyclopropyl)amino]-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl}carbonyl)piperidin-4-yl]carbamate,
- (55) methyl[1-({6-[(2S)-butan-2-ylamino]-5-methoxy-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl}carbonyl)piperidin-4-yl]carbamate,
- 30 (56) methyl(1-{[6-[(1S)-1-cyclopropylethyl]amino]-5-ethoxy-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl}carbonyl)piperidin-4-yl]carbamate,

(57) methyl(1-{[6-{[(2R)-3,3-dimethylbutan-2-yl]amino}-5-ethoxy-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)carbamate, and

(58) methyl(1-{[2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)-
5 6-(pyridin-3-yloxy)pyrimidin-4-yl]carbonyl}piperidin-4-yl)carbamate,

or a pharmaceutically acceptable salt thereof, or a solvate thereof.

10 8. The pyrazolothiazole compound according to claim 1 which is any one of the following (1) to (8):

(1) N-(1-{[6-{[(1S)-1-cyclopropylethyl]amino}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)cyclopropanecarboxamide,

15 (2) N-(1-{[6-{[(2R)-3,3-dimethylbutan-2-yl]amino}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)cyclopropanecarboxamide,

(3) methyl(1-{[6-{[(1S)-1-cyclopropylethyl]amino}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}
20 piperidin-4-yl)carbamate,

(4) ethyl(1-{[6-{[(1S)-1-cyclopropylethyl]amino}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)carbamate,

(5) N-(1-{[6-{[(1S)-1-cyclopropylethyl](methyl)amino}-2-
25 2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)cyclopropanecarboxamide,

(6) propan-2-yl(1-{[6-{[(1S)-1-cyclopropylethyl]amino}-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)carbamate,

30 (7) methyl[1-({6-[(2S)-butan-2-ylamino]-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl]carbonyl}piperidin-4-yl)carbamate, and

(8) methyl[1-({6-[(2R)-butan-2-ylamino]-2-(pyrazolo[5,1-b][1,3]thiazol-7-yl)pyrimidin-4-yl}carbonyl)piperidin-4-yl]carbamate,
or a pharmaceutically acceptable salt thereof, or a solvate
5 thereof.

9. A pharmaceutical composition comprising the pyrazolothiazole compound or a pharmaceutically acceptable salt thereof or a solvate thereof according to any one of
10 claims 1 to 8 as an active ingredient.

10. The pyrazolothiazole compound or a pharmaceutically acceptable salt thereof or a solvate thereof according to any one of claims 1 to 8 for use as a
15 JAK1 inhibitor.

11. Use of the pyrazolothiazole compound or a pharmaceutically acceptable salt thereof or a solvate thereof according to any one of claims 1 to 8 in the
20 manufacture of a medicament, wherein the medicament is a JAK1 inhibitor.

12. The pyrazolothiazole compound or a pharmaceutically acceptable salt thereof or a solvate thereof according to any one of claims 1 to 8 for use as a
25 therapeutic agent for an inflammatory disease.

13. The pyrazolothiazole compound for use according to claim 12 wherein the inflammatory disease is atopic dermatitis, eczema, bronchial asthma, eosinophilic
30 pneumonia, chronic obstructive pulmonary disease, allergic rhinitis, eosinophilic sinusitis, nasal polyp, ankylosing spondylitis or eosinophilic esophagitis.

14. Use of the pyrazolothiazole compound or a pharmaceutically acceptable salt thereof or a solvate thereof according to any one of claims 1 to 8 in the manufacture of a medicament for therapeutic treatment of an
5 inflammatory disease.

15. The use according to claim 14 wherein the inflammatory disease is atopic dermatitis, eczema, bronchial asthma, eosinophilic pneumonia, chronic
10 obstructive pulmonary disease, allergic rhinitis, eosinophilic sinusitis, nasal polyp, ankylosing spondylitis or eosinophilic esophagitis.

16. The pyrazolothiazole compound or a
15 pharmaceutically acceptable salt thereof or a solvate thereof according to any one of claims 1 to 8 for use in the treatment of an autoimmune disease.

17. The pyrazolothiazole compound for use according
20 to claim 16 wherein the autoimmune disease is rheumatoid arthritis, psoriatic arthritis, juvenile arthritis, Castleman's disease, systemic lupus erythematosus, Sjögren's syndrome, inflammatory bowel disease, psoriasis, scleroderma, dry eye, Takayasu's arteritis, giant cell
25 arteritis, microscopic polyangiitis, granulomatosis with polyangiitis, eosinophilic granulomatosis with polyangiitis or neuromyelitis optica.

18. Use of the pyrazolothiazole compound or a
30 pharmaceutically acceptable salt thereof or a solvate thereof according to any one of claims 1 to 8 in the manufacture of a medicament for the treatment of an autoimmune disease.

19. The use according to claim 18 wherein the autoimmune disease is rheumatoid arthritis, psoriatic arthritis, juvenile arthritis, Castleman's disease,
5 systemic lupus erythematosus, Sjögren's syndrome, inflammatory bowel disease, psoriasis, scleroderma, dry eye, Takayasu's arteritis, giant cell arteritis, microscopic polyangiitis, granulomatosis with polyangiitis, eosinophilic granulomatosis with polyangiitis or
10 neuromyelitis optica.

20. The pyrazolothiazole compound or a pharmaceutically acceptable salt thereof or a solvate thereof according to any one of claims 1 to 8 for use as a
15 therapeutic agent for a proliferative disease.

21. The pyrazolothiazole compound for use according to claim 20 wherein the proliferative disease is solid cancers, blood cancers, lymph malignant tumor,
20 myeloproliferative diseases, multiple myeloma, pulmonary fibrosis or eosinophilia.

22. Use of the pyrazolothiazole compound or a pharmaceutically acceptable salt thereof or a solvate
25 thereof according to any one of claims 1 to 8 in the manufacture of a medicament for therapeutic treatment of a proliferative disease.

23. The use according to claim 22 wherein the
30 proliferative disease is solid cancers, blood cancers, lymph malignant tumor, myeloproliferative diseases, multiple myeloma, pulmonary fibrosis or eosinophilia.

24. The pyrazolothiazole compound or a pharmaceutically acceptable salt thereof or a solvate thereof according to any one of claims 1 to 8 for use in the treatment of diabetic nephropathy, alopecia areata,
5 bone marrow transplant rejection or organ transplant rejection.

25. Use of the pyrazolothiazole compound or a pharmaceutically acceptable salt thereof or a solvate
10 thereof according to any one of claims 1 to 8 in the manufacture of a medicament for the treatment of diabetic nephropathy, alopecia areata, bone marrow transplant rejection or organ transplant rejection.