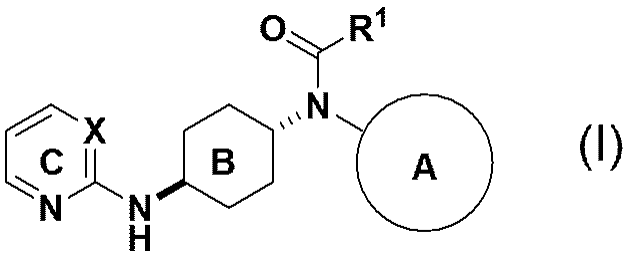
CLAIMS

1. A compound represented by the formula (I) or a salt thereof:



(I)

wherein

X is CH or N;

ring B is a cyclohexane ring not substituted further; and

1) R^1 is (1) a C_{1-6} alkyl group optionally substituted by 1 to 3 substituents selected from a C_{6-14} aryl group optionally substituted by 1 to 3 halogen atoms, a C_{6-14} aryloxy group and a 5- to 14-membered aromatic heterocyclic group, (2) a C_{1-6} alkoxy group optionally substituted by 1 to 3 substituents selected from a C_{6-14} aryl group and a 5- to 14-membered aromatic heterocyclic group, (3) a C_{6-14} aryl group, (4) a 3- to 14-membered non-aromatic heterocyclic group optionally substituted by 1 to 3 C_{6-14} aryl groups, or (5) $-NR^2R^3$ [R^2 is a hydrogen atom or a C_{1-6} alkyl group optionally substituted by 1 to 3 C_{6-14} aryl groups, R^3 is (i) a C_{1-6} alkyl group optionally substituted by 1 to 3 substituents selected from (a) a C_{3-10} cycloalkyl group, (b) a C_{6-14} aryl group optionally substituted by 1 to 3 substituents selected from a halogen atom, a cyano group, a C_{1-6} alkoxy group, a C_{1-6} alkylsulfonyl group and a C_{1-6} alkylsulfonylamino group, (c) a 3- to 14-membered non-aromatic heterocyclic group, and (d) a 5- to 14-membered aromatic heterocyclic group optionally substituted by 1 to 3 substituents selected from a C_{1-6} alkyl group and a C_{1-6} alkoxy group, or (ii) a C_{6-14} aryl group];

ring A is a C_{6-14} aromatic hydrocarbon ring or a 5-

to 14-membered aromatic heterocycle each of which is optionally further substituted by 1 – 5 substituents selected from (1) a halogen atom, (2) a cyano group, (3) a hydroxy group, (4) a C_{1-6} alkyl group optionally substituted by 1 to 3 substituents selected from (a) a halogen atom, (b) a C_{1-6} alkoxy group and (c) a 3- to 14-membered non-aromatic heterocyclic group optionally substituted by 1 to 3 C_{1-6} alkyl groups, (5) a C_{2-6} alkenyl group, (6) a C_{6-14} aryl group optionally substituted by 1 to 3 substituents selected from (a) a halogen atom, (b) a cyano group, (c) a C_{1-6} alkoxy group and (d) a carbamoyl group, (7) a C_{1-6} alkoxy group, (8) an amino group optionally mono- or di-substituted by substituent(s) selected from (a) a C_{1-6} alkyl group optionally substituted by 1 to 3 C_{1-6} alkoxy groups, (b) a C_{6-14} aryl group optionally substituted by 1 to 3 substituents selected from a cyano group and a C_{1-6} alkoxy group, and (c) a 5- to 14-membered aromatic heterocyclic group optionally substituted by 1 to 3 C_{1-6} alkyl groups, (9) a carboxy group, (10) a carbamoyl group optionally mono- or di-substituted by a C_{1-6} alkyl group, (11) a 3- to 14-membered non-aromatic heterocyclic group optionally substituted by 1 to 3 substituents selected from (a) an oxo group, (b) a cyano group, (c) a C_{1-6} alkyl group, (d) a C_{1-6} alkoxy group, (e) a C_{1-6} alkyl-carbonyl group, (f) a carbamoyl group, (g) a mono- or di-C_{1-6} alkylamino group and (h) a C_{1-6} alkylsulfonyl group (the 3- to 14-membered non-aromatic heterocyclic group also includes one having a spiro ring structure) and (12) a 5- to 14-membered aromatic heterocyclic group optionally substituted by 1 to 3 substituents selected from (a) an oxo group, (b) a C_{1-6} alkyl group optionally substituted by 1 to 3 substituents selected from a hydroxy group, a C_{1-6} alkoxy group, a carbamoyl group, a 3- to 14-membered non-

aromatic heterocyclic group and a 5- to 14-membered aromatic heterocyclic group, (c) a C_{1-6} alkoxy group, (d) an amino group, (e) a carboxy group, (f) a C_{1-6} alkoxy-carbonyl group, (g) a carbamoyl group and (h) a 3- to 14-membered non-aromatic heterocyclic group; and

ring C is a pyridine ring (that is, X is CH) or a pyrimidine ring (that is, X is N) each of which is optionally further substituted by 1 to 3 substituents selected from (1) a halogen atom, (2) a cyano group, (3) C_{1-6} alkyl group optionally substituted by 1 to 3 halogen atoms, (4) a C_{6-14} aryl group optionally substituted by 1 to 3 substituents selected from (a) a halogen atom, (b) a cyano group, (c) a C_{1-6} alkyl group optionally substituted by 1 to 3 halogen atoms, (d) a C_{1-6} alkoxy group optionally substituted by 1 to 3 halogen atoms, (e) a mono- or di-C_{1-6} alkylamino group, (f) a C_{1-6} alkyl-carbonylamino group, (g) a C_{1-6} alkyl-carbonyl group, (h) a carbamoyl group, (i) a sulfamoyl group and (j) a 3- to 14-membered non-aromatic heterocyclic-sulfonyl group, (5) a C_{1-6} alkoxy group optionally substituted by 1 to 3 substituents selected from (a) a halogen atom and (b) a 5- to 14-membered aromatic heterocyclic group optionally substituted by 1 to 3 C_{1-6} alkyl groups, (6) a C_{6-14} aryloxy group optionally substituted by 1 to 3 C_{1-6} alkylsulfonyl groups, (7) a 3- to 14-membered non-aromatic heterocyclic-oxy group, (8) an amino group optionally mono- or di-substituted by substituent(s) selected from (a) a C_{1-6} alkyl group optionally substituted by 1 to 3 substituents selected from (i) a halogen atom, (ii) a hydroxy group, (iii) a cyano group, (iv) a C_{3-10} cycloalkyl group optionally substituted by 1 to 3 hydroxy groups, (v) a C_{6-14} aryl group optionally substituted by 1 to 3 substituents selected from a C_{1-6} alkylsulfonyl group and a sulfamoyl group, (vi) a C_{1-6} alkoxy group optionally substituted by 1 to 3 halogen

atoms, (vii) a mono- or di-C_{1-6} alkylamino group, (viii) a C_{1-6} alkyl-carbonylamino group, (ix) a carbamoyl group, (x) a C_{1-6} alkylsulfonyl group, (xi) a 3- to 14-membered non-aromatic heterocyclic group optionally substituted by 1 to 3 substituents selected from an oxo group and a C_{1-6} alkyl group and (xii) a C_{1-6} alkyl group optionally substituted by 1 to 3 substituents selected from a 5- to 14-membered aromatic heterocyclic group optionally substituted by 1 to 3 substituents selected from a C_{1-6} alkyl group, a C_{3-10} cycloalkyl group and a (C_{1-6} alkyl)(C_{1-6} alkyl-sulfonyl)amino group, (b) a C_{3-10} cycloalkyl group optionally substituted by 1 to 3 substituents selected from a halogen atom, a hydroxy group, a C_{1-6} alkyl group optionally substituted by 1 to 3 hydroxy groups and a C_{1-6} alkoxy group optionally substituted by 1 to 3 halogen atoms (the C_{3-10} cycloalkyl group also includes one having a spiro ring structure), (c) a C_{6-14} aryl group optionally substituted by 1 to 3 C_{1-6} alkylsulfonyl groups, (d) a C_{3-10} cycloalkyl-carbonyl group, (e) a 3- to 14-membered non-aromatic heterocyclic group optionally substituted by 1 to 3 substituents selected from an oxo group, a hydroxy group and a C_{1-6} alkyl group (the 3- to 14-membered non-aromatic heterocyclic group also includes one having a bicyclo ring structure, a bridged ring structure, or a spiro ring structure) and (f) a 5- to 14-membered aromatic heterocyclic group, (9) a carbamoyl group, (10) a 3- to 14-membered non-aromatic heterocyclic group optionally substituted by 1 to 3 substituents selected from (a) an oxo group, (b) a halogen atom, (c) a hydroxy group, (d) a cyano group, (e) a C_{1-6} alkyl group optionally substituted by 1 to 3 substituents selected from a halogen atom, a hydroxy group and a C_{1-6} alkoxy group, (f) a C_{3-10} cycloalkyl group, (g) a C_{1-6} alkoxy group optionally substituted by 1 to 3 halogen atoms, (h) a C_{1-6} alkyl-carbonyl group, (i) a

carbamoyl group, (j) a C_{1-6} alkylsulfonyl group, (k) a (C_{1-6} alkyl)(C_{1-6} alkyl-carbonyl)amino group, (l) a dimethyl(oxide)-λ^6-sulfanylideneamino group and (m) a methylimino group (the 3- to 14-membered non-aromatic heterocyclic group also includes one having a bicyclo ring structure, a bridged ring structure, or a spiro ring structure) and (11) a 5- to 14-membered aromatic heterocyclic group optionally substituted by 1 to 3 substituents selected from (a) an oxo group, (b) a hydroxy group, (c) a cyano group, (d) a halogen atom, (e) a C_{1-6} alkyl group optionally substituted by 1 to 3 substituents selected from a hydroxy group, a halogen atom, a C_{3-10} cycloalkyl group, a C_{6-14} aryl group, a C_{1-6} alkoxy-carbonyl group and a carbamoyl group, (f) a C_{1-6} alkoxy group, (g) a C_{1-6} alkoxy-carbonyl group, (h) a C_{1-6} alkylsulfonyl group and (i) a 3- to 14-membered non-aromatic heterocyclic group;

or

2) R^1 is (1) a C_{1-6} alkyl group optionally substituted by 1 to 3 substituents selected from a halogen atom, a C_{3-10} cycloalkyl group, a C_{1-6} alkoxy group, and a C_{6-14} aryloxy group, (2) a C_{1-6} alkoxy group optionally substituted by 1 to 3 substituents selected from (a) a halogen atom, (b) a hydroxy group, (c) a C_{3-10} cycloalkyl group optionally substituted by 1 to 3 substituents selected from a halogen atom and an amino group, (d) a C_{6-14} aryl group, (e) a C_{1-6} alkoxy group, (f) an amino group optionally mono- or di-substituted by a C_{1-6} alkyl group, (g) a 3- to 14-membered non-aromatic heterocyclic group optionally substituted by 1 to 3 halogen atoms and (h) a 5- to 14-membered aromatic heterocyclic group, (3) a 3- to 14-membered non-aromatic heterocyclic group optionally substituted by 1 to 3 substituents selected from a halogen atom, a hydroxy group, a C_{1-6} alkyl group, a C_{1-6} alkoxy group and a C_{6-14} aryl group or (4) $-NR^2R^3$ [R^2

is a hydrogen atom or a C_{1-6} alkyl group, and R^3 is (i) a C_{1-6} alkyl group optionally substituted by 1 to 3 substituents selected from (a) a halogen atom, (b) a hydroxy group, (c) a C_{3-10} cycloalkyl group optionally substituted by 1 to 3 substituents selected from a halogen atom and an amino group, (d) a C_{1-6} alkoxy group, (e) a C_{6-14} aryl group optionally substituted by 1 to 3 halogen atoms, (f) an amino group optionally mono- or di-substituted by a C_{1-6} alkyl group, (g) a 3- to 14-membered non-aromatic heterocyclic group and (h) a 5- to 14-membered aromatic heterocyclic group, or (ii) a C_{3-10} cycloalkyl group optionally substituted by 1 to 3 halogen atoms];

ring A is a C_{6-14} aromatic hydrocarbon ring or a 5- to 14-membered aromatic heterocycle each of which is optionally further substituted by 1 – 5 substituents selected from (1) a halogen atom, (2) a C_{1-6} alkyl group optionally substituted by 1 to 3 substituents selected from (a) a halogen atom and (b) a C_{3-10} cycloalkyl group, (3) a C_{1-6} alkoxy group optionally substituted by 1 to 3 substituents selected from (a) a halogen atom, (b) a C_{1-6} alkoxy group and (c) a carbamoyl group optionally mono- or di-substituted by a C_{1-6} alkyl group, (4) a carbamoyl group optionally mono- or di-substituted by a C_{1-6} alkyl group optionally substituted by a C_{1-6} alkoxy group, (5) a 3- to 14-membered non-aromatic heterocyclic group (the 3- to 14-membered non-aromatic heterocyclic group also includes one having a spiro ring structure) and (6) a 5- to 14-membered aromatic heterocyclic group optionally substituted by 1 to 3 substituents selected from (a) an oxo group, (b) a C_{1-6} alkyl group optionally substituted by 1 to 3 substituents selected from a halogen atom, a C_{3-10} cycloalkyl group and a 3- to 14-membered non-aromatic heterocyclic group, (c) a C_{3-10} cycloalkyl group, (d) a C_{1-6} alkoxy group, (e) an amino group, (f) a

carboxy group, (g) a C_{1-6} alkoxy-carbonyl group and (h) a 3- to 14-membered non-aromatic heterocyclic group; and

ring C is a pyrimidine ring (that is, X is N) optionally further substituted by 1 to 3 substituents selected from (1) a halogen atom, (2) a cyano group, (3) C_{1-6} alkyl group optionally substituted by 1 to 3 halogen atoms, (4) a C_{6-14} aryl group optionally substituted by 1 to 3 substituents selected from (a) a halogen atom, (b) a cyano group, (c) a C_{1-6} alkyl group optionally substituted by 1 to 3 halogen atoms, (d) a C_{1-6} alkoxy group optionally substituted by 1 to 3 halogen atoms, (e) a mono- or di-C_{1-6} alkylamino group, (f) a C_{1-6} alkyl-carbonylamino group, (g) a C_{1-6} alkyl-carbonyl group, (h) a carbamoyl group, (i) a sulfamoyl group and (j) a 3- to 14-membered non-aromatic heterocyclic-sulfonyl group, (5) a C_{1-6} alkoxy group optionally substituted by 1 to 3 substituents selected from (a) a halogen atom, (b) a 3- to 14-membered non-aromatic heterocyclic group and (c) a 5- to 14-membered aromatic heterocyclic group optionally substituted by 1 to 3 C_{1-6} alkyl groups, (6) a C_{6-14} aryloxy group optionally substituted by 1 to 3 C_{1-6} alkylsulfonyl groups, (7) a 3- to 14-membered non-aromatic heterocyclic-oxy group optionally substituted by 1 to 3 C_{1-6} alkyl groups, (8) an amino group optionally mono- or di-substituted by substituent(s) selected from (a) a C_{1-6} alkyl group optionally substituted by 1 to 3 substituents selected from (i) a halogen atom, (ii) a hydroxy group, (iii) a cyano group, (iv) a C_{3-10} cycloalkyl group optionally substituted by 1 to 3 hydroxy groups, (v) a C_{6-14} aryl group optionally substituted by 1 to 3 substituents selected from a C_{1-6} alkylsulfonyl group and a sulfamoyl group, (vi) a C_{1-6} alkoxy group optionally substituted by 1 to 3 halogen atoms, (vii) a mono- or di-C_{1-6} alkylamino group, (viii) a C_{1-6} alkyl-carbonylamino group, (ix) a carbamoyl group,

(x) a C_{1-6} alkylsulfonyl group, (xi) a 3- to 14-membered non-aromatic heterocyclic group optionally substituted by 1 to 3 substituents selected from an oxo group and a C_{1-6} alkyl group and (xii) a 5- to 14-membered aromatic heterocyclic group optionally substituted by 1 to 3 substituents selected from a C_{1-6} alkyl group, a C_{3-10} cycloalkyl group and a (C_{1-6} alkyl)(C_{1-6} alkyl-sulfonyl)amino group, (b) a C_{3-10} cycloalkyl group optionally substituted by 1 to 3 substituents selected from a halogen atom, a hydroxy group, a C_{1-6} alkyl group optionally substituted by 1 to 3 hydroxy groups and a C_{1-6} alkoxy group optionally substituted by 1 to 3 halogen atoms (the C_{3-10} cycloalkyl group also includes one having a spiro ring structure), (c) a C_{6-14} aryl group optionally substituted by 1 to 3 C_{1-6} alkylsulfonyl groups, (d) a C_{3-10} cycloalkyl-carbonyl group, (e) a 3- to 14-membered non-aromatic heterocyclic group optionally substituted by 1 to 3 substituents selected from an oxo group, a hydroxy group and a C_{1-6} alkyl group (the 3- to 14-membered non-aromatic heterocyclic group also includes one having a bicyclo ring structure, a bridged ring structure, or a spiro ring structure) and (f) a 5- to 14-membered aromatic heterocyclic group, (9) a carbamoyl group, (10) a 3- to 14-membered non-aromatic heterocyclic group optionally substituted by 1 to 3 substituents selected from (a) an oxo group, (b) a halogen atom, (c) a hydroxy group, (d) a cyano group, (e) a C_{1-6} alkyl group optionally substituted by 1 to 3 substituents selected from a halogen atom, a hydroxy group and a C_{1-6} alkoxy group, (f) a C_{3-10} cycloalkyl group, (g) a C_{1-6} alkoxy group optionally substituted by 1 to 3 halogen atoms, (h) a C_{1-6} alkyl-carbonyl group, (i) a carbamoyl group, (j) a C_{1-6} alkylsulfonyl group, (k) a (C_{1-6} alkyl)(C_{1-6} alkyl-carbonyl)amino group, (l) a dimethyl(oxide)-λ^6-sulfanylideneamino group and (m) a

methylimino group (the 3- to 14-membered non-aromatic heterocyclic group also includes one having a bicyclo ring structure, a bridged ring structure, or a spiro ring structure) and (11) a 5- to 14-membered aromatic heterocyclic group optionally substituted by 1 to 3 substituents selected from (a) an oxo group, (b) a hydroxy group, (c) a cyano group, (d) a halogen atom, (e) a C_{1-6} alkyl group optionally substituted by 1 to 3 substituents selected from a hydroxy group, a halogen atom, a C_{3-10} cycloalkyl group, a C_{6-14} aryl group, a C_{1-6} alkoxy-carbonyl group and a carbamoyl group, (f) a C_{3-10} cycloalkyl group, (g) a C_{1-6} alkoxy group, (h) a C_{1-6} alkoxy-carbonyl group, (i) a C_{1-6} alkylsulfonyl group and (j) a 3- to 14-membered non-aromatic heterocyclic group.

2. The compound or a salt thereof according to claim 1, wherein

R^1 is (1) a C_{1-6} alkyl group optionally substituted by 1 to 3 substituents selected from a C_{6-14} aryl group optionally substituted by 1 to 3 halogen atoms, a C_{6-14} aryloxy group and a 5- to 14-membered aromatic heterocyclic group, (2) a C_{1-6} alkoxy group optionally substituted by 1 to 3 substituents selected from a C_{6-14} aryl group and a 5- to 14-membered aromatic heterocyclic group, (3) a C_{6-14} aryl group, (4) a 3- to 14-membered non-aromatic heterocyclic group optionally substituted by 1 to 3 C_{6-14} aryl groups, or (5) $-NR^2R^3$ [R^2 is a hydrogen atom or a C_{1-6} alkyl group optionally substituted by 1 to 3 C_{6-14} aryl groups, R^3 is (i) a C_{1-6} alkyl group optionally substituted by 1 to 3 substituents selected from (a) a C_{3-10} cycloalkyl group, (b) a C_{6-14} aryl group optionally substituted by 1 to 3 substituents selected from a halogen atom, a cyano group, a C_{1-6} alkoxy group, a C_{1-6} alkylsulfonyl group and a C_{1-6} alkylsulfonylamino group, (c) a 3- to 14-membered non-

aromatic heterocyclic group, and (d) a 5- to 14-membered aromatic heterocyclic group optionally substituted by 1 to 3 substituents selected from a C_{1-6} alkyl group and a C_{1-6} alkoxy group, or (ii) a C_{6-14} aryl group];

ring A is a C_{6-14} aromatic hydrocarbon ring or a 5- to 14-membered aromatic heterocycle each of which is optionally further substituted by 1 - 5 substituents selected from (1) a halogen atom, (2) a cyano group, (3) a hydroxy group, (4) a C_{1-6} alkyl group optionally substituted by 1 to 3 substituents selected from (a) a halogen atom, (b) a C_{1-6} alkoxy group and (c) a 3- to 14-membered non-aromatic heterocyclic group optionally substituted by 1 to 3 C_{1-6} alkyl groups, (5) a C_{2-6} alkenyl group, (6) a C_{6-14} aryl group optionally substituted by 1 to 3 substituents selected from (a) a halogen atom, (b) a cyano group, (c) a C_{1-6} alkoxy group and (d) a carbamoyl group, (7) a C_{1-6} alkoxy group, (8) an amino group optionally mono- or di-substituted by substituent(s) selected from (a) a C_{1-6} alkyl group optionally substituted by 1 to 3 C_{1-6} alkoxy groups, (b) a C_{6-14} aryl group optionally substituted by 1 to 3 substituents selected from a cyano group and a C_{1-6} alkoxy group, and (c) a 5- to 14-membered aromatic heterocyclic group optionally substituted by 1 to 3 C_{1-6} alkyl groups, (9) a carboxy group, (10) a carbamoyl group optionally mono- or di-substituted by a C_{1-6} alkyl group, (11) a 3- to 14-membered non-aromatic heterocyclic group optionally substituted by 1 to 3 substituents selected from (a) an oxo group, (b) a cyano group, (c) a C_{1-6} alkyl group, (d) a C_{1-6} alkoxy group, (e) a C_{1-6} alkyl-carbonyl group, (f) a carbamoyl group, (g) a mono- or di-C_{1-6} alkylamino group and (h) a C_{1-6} alkylsulfonyl group (the 3- to 14-membered non-aromatic heterocyclic group also includes one having a spiro ring structure) and (12) a 5- to 14-membered aromatic

heterocyclic group optionally substituted by 1 to 3 substituents selected from (a) an oxo group, (b) a C_{1-6} alkyl group optionally substituted by 1 to 3 substituents selected from a hydroxy group, a C_{1-6} alkoxy group, a carbamoyl group, a 3- to 14-membered non-aromatic heterocyclic group and a 5- to 14-membered aromatic heterocyclic group, (c) a C_{1-6} alkoxy group, (d) an amino group, (e) a carboxy group, (f) a C_{1-6} alkoxy-carbonyl group, (g) a carbamoyl group and (h) a 3- to 14-membered non-aromatic heterocyclic group;

ring C is a pyridine ring (that is, X is CH) or a pyrimidine ring (that is, X is N) each of which is optionally further substituted by 1 to 3 substituents selected from (1) a halogen atom, (2) a cyano group, (3) C_{1-6} alkyl group optionally substituted by 1 to 3 halogen atoms, (4) a C_{6-14} aryl group optionally substituted by 1 to 3 substituents selected from (a) a halogen atom, (b) a cyano group, (c) a C_{1-6} alkyl group optionally substituted by 1 to 3 halogen atoms, (d) a C_{1-6} alkoxy group optionally substituted by 1 to 3 halogen atoms, (e) a mono- or di-C_{1-6} alkylamino group, (f) a C_{1-6} alkyl-carbonylamino group, (g) a C_{1-6} alkyl-carbonyl group, (h) a carbamoyl group, (i) a sulfamoyl group and (j) a 3- to 14-membered non-aromatic heterocyclic-sulfonyl group, (5) a C_{1-6} alkoxy group optionally substituted by 1 to 3 substituents selected from (a) a halogen atom and (b) a 5- to 14-membered aromatic heterocyclic group optionally substituted by 1 to 3 C_{1-6} alkyl groups, (6) a C_{6-14} aryloxy group optionally substituted by 1 to 3 C_{1-6} alkylsulfonyl groups, (7) a 3- to 14-membered non-aromatic heterocyclic-oxy group, (8) an amino group optionally mono- or di-substituted by substituent(s) selected from (a) a C_{1-6} alkyl group optionally substituted by 1 to 3 substituents selected from (i) a halogen atom, (ii) a hydroxy group, (iii) a cyano group,

(iv) a C_{3-10} cycloalkyl group optionally substituted by 1 to 3 hydroxy groups, (v) a C_{6-14} aryl group optionally substituted by 1 to 3 substituents selected from a C_{1-6} alkylsulfonyl group and a sulfamoyl group, (vi) a C_{1-6} alkoxy group optionally substituted by 1 to 3 halogen atoms, (vii) a mono- or di-C_{1-6} alkylamino group, (viii) a C_{1-6} alkyl-carbonylamino group, (ix) a carbamoyl group, (x) a C_{1-6} alkylsulfonyl group, (xi) a 3- to 14-membered non-aromatic heterocyclic group optionally substituted by 1 to 3 substituents selected from an oxo group and a C_{1-6} alkyl group and (xii) a C_{1-6} alkyl group optionally substituted by 1 to 3 substituents selected from a 5- to 14-membered aromatic heterocyclic group optionally substituted by 1 to 3 substituents selected from a C_{1-6} alkyl group, a C_{3-10} cycloalkyl group and a (C_{1-6} alkyl)(C_{1-6} alkyl-sulfonyl)amino group, (b) a C_{3-10} cycloalkyl group optionally substituted by 1 to 3 substituents selected from a halogen atom, a hydroxy group, a C_{1-6} alkyl group optionally substituted by 1 to 3 hydroxy groups and a C_{1-6} alkoxy group optionally substituted by 1 to 3 halogen atoms (the C_{3-10} cycloalkyl group also includes one having a spiro ring structure), (c) a C_{6-14} aryl group optionally substituted by 1 to 3 C_{1-6} alkylsulfonyl groups, (d) a C_{3-10} cycloalkyl-carbonyl group, (e) a 3- to 14-membered non-aromatic heterocyclic group optionally substituted by 1 to 3 substituents selected from an oxo group, a hydroxy group and a C_{1-6} alkyl group (the 3- to 14-membered non-aromatic heterocyclic group also includes one having a bicyclo ring structure, a bridged ring structure, or a spiro ring structure) and (f) a 5- to 14-membered aromatic heterocyclic group, (9) a carbamoyl group, (10) a 3- to 14-membered non-aromatic heterocyclic group optionally substituted by 1 to 3 substituents selected from (a) an oxo group, (b) a halogen atom, (c) a hydroxy group, (d) a cyano group,

(e) a C_{1-6} alkyl group optionally substituted by 1 to 3 substituents selected from a halogen atom, a hydroxy group and a C_{1-6} alkoxy group, (f) a C_{3-10} cycloalkyl group, (g) a C_{1-6} alkoxy group optionally substituted by 1 to 3 halogen atoms, (h) a C_{1-6} alkyl-carbonyl group, (i) a carbamoyl group, (j) a C_{1-6} alkylsulfonyl group, (k) a (C_{1-6} alkyl)(C_{1-6} alkyl-carbonyl)amino group, (l) a dimethyl(oxide)-λ^6-sulfanylideneamino group and (m) a methylimino group (the 3- to 14-membered non-aromatic heterocyclic group also includes one having a bicyclo ring structure, a bridged ring structure, or a spiro ring structure) and (11) a 5- to 14-membered aromatic heterocyclic group optionally substituted by 1 to 3 substituents selected from (a) an oxo group, (b) a hydroxy group, (c) a cyano group, (d) a halogen atom, (e) a C_{1-6} alkyl group optionally substituted by 1 to 3 substituents selected from a hydroxy group, a halogen atom, a C_{3-10} cycloalkyl group, a C_{6-14} aryl group, a C_{1-6} alkoxy-carbonyl group and a carbamoyl group, (f) a C_{1-6} alkoxy group, (g) a C_{1-6} alkoxy-carbonyl group, (h) a C_{1-6} alkylsulfonyl group and (i) a 3- to 14-membered non-aromatic heterocyclic group.

3. The compound or a salt thereof according to claim 1, wherein

R^1 is (1) a C_{1-6} alkyl group optionally substituted by 1 to 3 substituents selected from a C_{6-14} aryl group, a C_{6-14} aryloxy group and a 5- to 14-membered aromatic heterocyclic group, (2) a C_{1-6} alkoxy group optionally substituted by 1 to 3 substituents selected from a C_{6-14} aryl group and a 5- to 14-membered aromatic heterocyclic group, or (3) $-NR^2R^3$ [R^2 is a hydrogen atom, and R^3 is a C_{1-6} alkyl group optionally substituted by 1 to 3 substituents selected from (a) a C_{6-14} aryl group optionally substituted by 1 to 3 halogen atoms and (b) a 5- to 14-membered aromatic heterocyclic group];

ring A is a C_{6-14} aromatic hydrocarbon ring or a 5- to 14-

membered aromatic heterocycle each of which is optionally further substituted by 1 - 5 substituents selected from (a) an oxo group, (b) a C_{1-6} alkyl group and (c) a 5- to 14-membered aromatic heterocyclic group optionally substituted by 1 to 3 substituents selected from a C_{1-6} alkoxy group; and

ring C is a pyrimidine ring (that is, X is N) optionally further substituted by 1 to 3 substituents selected from (1) a cyano group, (2) a C_{1-6} alkyl group optionally substituted by 1 to 3 halogen atoms, (3) a 3- to 14-membered non-aromatic heterocyclic-oxy group, (4) an amino group optionally mono- or di-substituted by substituent(s) selected from (a) a C_{1-6} alkyl group optionally substituted by 1 to 3 hydroxy groups and (b) a 3- to 14-membered non-aromatic heterocyclic group optionally substituted by 1 to 3 C_{1-6} alkyl groups (the 3- to 14-membered non-aromatic heterocyclic group also includes one having a bicyclo ring structure, a bridged ring structure, or a spiro ring structure), (5) a 3- to 14-membered non-aromatic heterocyclic group optionally substituted by 1 to 3 substituents selected from (a) a halogen atom, (b) a hydroxy group and (c) a C_{1-6} alkyl group optionally substituted by 1 to 3 hydroxy groups (the 3- to 14-membered non-aromatic heterocyclic group also includes one having a bicyclo ring structure, a bridged ring structure, or a spiro ring structure) and (6) a 5- to 14-membered aromatic heterocyclic group optionally substituted by 1 to 3 substituents selected from (a) a cyano group, (b) a halogen atom, (c) a C_{1-6} alkyl group and (d) a C_{1-6} alkylsulfonyl group.

4. The compound or a salt thereof according to claim 1, wherein

R^1 is (1) a C_{1-6} alkyl group optionally substituted by 1 to 3 substituents selected from a halogen atom, a C_{3-10} cycloalkyl group, a C_{1-6} alkoxy group, and a C_{6-14} aryloxy group, (2) a C_{1-6} alkoxy group optionally substituted by 1 to 3 substituents selected from (a) a halogen atom, (b) a hydroxy group, (c) a C_{3-10} cycloalkyl group optionally substituted by 1

to 3 substituents selected from a halogen atom and an amino group, (d) a C_{6-14} aryl group, (e) a C_{1-6} alkoxy group, (f) an amino group optionally mono- or di-substituted by a C_{1-6} alkyl group, (g) a 3- to 14-membered non-aromatic heterocyclic group optionally substituted by 1 to 3 halogen atoms and (h) a 5- to 14-membered aromatic heterocyclic group, (3) a 3- to 14-membered non-aromatic heterocyclic group optionally substituted by 1 to 3 substituents selected from a halogen atom, a hydroxy group, a C_{1-6} alkyl group, a C_{1-6} alkoxy group and a C_{6-14} aryl group or (4) $-NR^2R^3$ [R^2 is a hydrogen atom or a C_{1-6} alkyl group, and R^3 is (i) a C_{1-6} alkyl group optionally substituted by 1 to 3 substituents selected from (a) a halogen atom, (b) a hydroxy group, (c) a C_{3-10} cycloalkyl group optionally substituted by 1 to 3 substituents selected from a halogen atom and an amino group, (d) a C_{1-6} alkoxy group, (e) a C_{6-14} aryl group optionally substituted by 1 to 3 halogen atoms, (f) an amino group optionally mono- or di-substituted by a C_{1-6} alkyl group, (g) a 3- to 14-membered non-aromatic heterocyclic group and (h) a 5- to 14-membered aromatic heterocyclic group, or (ii) a C_{3-10} cycloalkyl group optionally substituted by 1 to 3 halogen atoms];

ring A is a C_{6-14} aromatic hydrocarbon ring or a 5- to 14-membered aromatic heterocycle each of which is optionally further substituted by 1 - 5 substituents selected from (1) a halogen atom, (2) a C_{1-6} alkyl group optionally substituted by 1 to 3 substituents selected from (a) a halogen atom and (b) a C_{3-10} cycloalkyl group, (3) a C_{1-6} alkoxy group optionally substituted by 1 to 3 substituents selected from (a) a halogen atom, (b) a C_{1-6} alkoxy group and (c) a carbamoyl group optionally mono- or di-substituted by a C_{1-6} alkyl group, (4) a carbamoyl group optionally mono- or di-substituted by a C_{1-6} alkyl group optionally substituted by a C_{1-6} alkoxy group, (5) a 3- to 14-membered non-aromatic heterocyclic group (the 3- to 14-membered non-aromatic heterocyclic group also includes one having a spiro ring structure) and (6) a 5- to 14-membered

aromatic heterocyclic group optionally substituted by 1 to 3 substituents selected from (a) an oxo group, (b) a C_{1-6} alkyl group optionally substituted by 1 to 3 substituents selected from a halogen atom, a C_{3-10} cycloalkyl group and a 3- to 14-membered non-aromatic heterocyclic group, (c) a C_{3-10} cycloalkyl group, (d) a C_{1-6} alkoxy group, (e) an amino group, (f) a carboxy group, (g) a C_{1-6} alkoxy-carbonyl group and (h) a 3- to 14-membered non-aromatic heterocyclic group;

ring C is a pyrimidine ring (that is, X is N) optionally further substituted by 1 to 3 substituents selected from (1) a halogen atom, (2) a cyano group, (3) C_{1-6} alkyl group optionally substituted by 1 to 3 halogen atoms, (4) a C_{6-14} aryl group optionally substituted by 1 to 3 substituents selected from (a) a halogen atom, (b) a cyano group, (c) a C_{1-6} alkyl group optionally substituted by 1 to 3 halogen atoms, (d) a C_{1-6} alkoxy group optionally substituted by 1 to 3 halogen atoms, (e) a mono- or di-C_{1-6} alkylamino group, (f) a C_{1-6} alkyl-carbonylamino group, (g) a C_{1-6} alkyl-carbonyl group, (h) a carbamoyl group, (i) a sulfamoyl group and (j) a 3- to 14-membered non-aromatic heterocyclic-sulfonyl group, (5) a C_{1-6} alkoxy group optionally substituted by 1 to 3 substituents selected from (a) a halogen atom, (b) a 3- to 14-membered non-aromatic heterocyclic group and (c) a 5- to 14-membered aromatic heterocyclic group optionally substituted by 1 to 3 C_{1-6} alkyl groups, (6) a C_{6-14} aryloxy group optionally substituted by 1 to 3 C_{1-6} alkylsulfonyl groups, (7) a 3- to 14-membered non-aromatic heterocyclic-oxy group optionally substituted by 1 to 3 C_{1-6} alkyl groups, (8) an amino group optionally mono- or di-substituted by substituent(s) selected from (a) a C_{1-6} alkyl group optionally substituted by 1 to 3 substituents selected from (i) a halogen atom, (ii) a hydroxy group, (iii) a cyano group, (iv) a C_{3-10} cycloalkyl group optionally substituted by 1 to 3 hydroxy groups, (v) a C_{6-14} aryl group optionally substituted by 1 to 3 substituents selected from a C_{1-6} alkylsulfonyl group and a sulfamoyl group,

(vi) a C_{1-6} alkoxy group optionally substituted by 1 to 3 halogen atoms, (vii) a mono- or di-C_{1-6} alkylamino group, (viii) a C_{1-6} alkyl-carbonylamino group, (ix) a carbamoyl group, (x) a C_{1-6} alkylsulfonyl group, (xi) a 3- to 14-membered non-aromatic heterocyclic group optionally substituted by 1 to 3 substituents selected from an oxo group and a C_{1-6} alkyl group and (xii) a 5- to 14-membered aromatic heterocyclic group optionally substituted by 1 to 3 substituents selected from a C_{1-6} alkyl group, a C_{3-10} cycloalkyl group and a (C_{1-6} alkyl)(C_{1-6} alkyl-sulfonyl)amino group, (b) a C_{3-10} cycloalkyl group optionally substituted by 1 to 3 substituents selected from a halogen atom, a hydroxy group, a C_{1-6} alkyl group optionally substituted by 1 to 3 hydroxy groups and a C_{1-6} alkoxy group optionally substituted by 1 to 3 halogen atoms (the C_{3-10} cycloalkyl group also includes one having a spiro ring structure), (c) a C_{6-14} aryl group optionally substituted by 1 to 3 C_{1-6} alkylsulfonyl groups, (d) a C_{3-10} cycloalkyl-carbonyl group, (e) a 3- to 14-membered non-aromatic heterocyclic group optionally substituted by 1 to 3 substituents selected from an oxo group, a hydroxy group and a C_{1-6} alkyl group (the 3- to 14-membered non-aromatic heterocyclic group also includes one having a bicyclo ring structure, a bridged ring structure, or a spiro ring structure) and (f) a 5- to 14-membered aromatic heterocyclic group, (9) a carbamoyl group, (10) a 3- to 14-membered non-aromatic heterocyclic group optionally substituted by 1 to 3 substituents selected from (a) an oxo group, (b) a halogen atom, (c) a hydroxy group, (d) a cyano group, (e) a C_{1-6} alkyl group optionally substituted by 1 to 3 substituents selected from a halogen atom, a hydroxy group and a C_{1-6} alkoxy group, (f) a C_{3-10} cycloalkyl group, (g) a C_{1-6} alkoxy group optionally substituted by 1 to 3 halogen atoms, (h) a C_{1-6} alkyl-carbonyl group, (i) a carbamoyl group, (j) a C_{1-6} alkylsulfonyl group, (k) a (C_{1-6} alkyl)(C_{1-6} alkyl-carbonyl)amino group, (l) a dimethyl(oxide)-λ^6-sulfanylideneamino group and (m) a methylimino group (the 3- to 14-membered non-aromatic

heterocyclic group also includes one having a bicyclo ring structure, a bridged ring structure, or a spiro ring structure) and (11) a 5- to 14-membered aromatic heterocyclic group optionally substituted by 1 to 3 substituents selected from (a) an oxo group, (b) a hydroxy group, (c) a cyano group, (d) a halogen atom, (e) a C_{1-6} alkyl group optionally substituted by 1 to 3 substituents selected from a hydroxy group, a halogen atom, a C_{3-10} cycloalkyl group, a C_{6-14} aryl group, a C_{1-6} alkoxy-carbonyl group and a carbamoyl group, (f) a C_{3-10} cycloalkyl group, (g) a C_{1-6} alkoxy group, (h) a C_{1-6} alkoxy-carbonyl group, (i) a C_{1-6} alkylsulfonyl group and (j) a 3- to 14-membered non-aromatic heterocyclic group.

5. The compound or a salt thereof according to claim 1, wherein

R^1 is (1) a C_{1-6} alkyl group optionally substituted by 1 to 3 substituents selected from a halogen atom, a C_{1-6} alkoxy group and a C_{6-14} aryloxy group, (2) a C_{1-6} alkoxy group optionally substituted by 1 to 3 substituents selected from (a) a halogen atom, (b) a hydroxy group, (c) a C_{6-14} aryl group, (d) an amino group optionally mono- or di-substituted by a C_{1-6} alkyl group and (e) a 5- to 14-membered aromatic heterocyclic group or (3) $-NR^2R^3$ [R^2 is a hydrogen atom, and R^3 is a C_{1-6} alkyl group optionally substituted by 1 to 3 substituents selected from (a) a halogen atom, (b) a hydroxy group, (c) a C_{3-10} cycloalkyl group optionally substituted by 1 to 3 halogen atoms, (d) a C_{6-14} aryl group optionally substituted by 1 to 3 halogen atoms and (e) a 5- to 14-membered aromatic heterocyclic group];

ring A is a C_{6-14} aromatic hydrocarbon ring or a 5- to 14-membered aromatic heterocycle each of which is optionally further substituted by 1 - 5 substituents selected from a 5- to 14-membered aromatic heterocyclic group optionally substituted by 1 to 3 substituents selected from (a) an oxo group, (b) a C_{1-6} alkyl group and (c) a C_{1-6} alkoxy group;

and

ring C is a pyrimidine ring (that is, X is N) optionally further substituted by 1 to 3 substituents selected from (1) a cyano group, (2) a C_{1-6} alkyl group optionally substituted by 1 to 3 halogen atoms, (3) a 3- to 14-membered non-aromatic heterocyclic-oxy group, (4) an amino group optionally mono- or di-substituted by substituent(s) selected from (a) a C_{1-6} alkyl group optionally substituted by 1 to 3 hydroxy groups and (b) a 3- to 14-membered non-aromatic heterocyclic group optionally substituted by 1 to 3 C_{1-6} alkyl groups (the 3- to 14-membered non-aromatic heterocyclic group also includes one having a bicyclo ring structure, a bridged ring structure, or a spiro ring structure), (5) a 3- to 14-membered non-aromatic heterocyclic group optionally substituted by 1 to 3 substituents selected from (a) a halogen atom, (b) a hydroxy group and (c) a C_{1-6} alkyl group optionally substituted by 1 to 3 hydroxy groups (the 3- to 14-membered non-aromatic heterocyclic group also includes one having a bicyclo ring structure, a bridged ring structure, or a spiro ring structure) and (6) a 5- to 14-membered aromatic heterocyclic group optionally substituted by 1 to 3 substituents selected from (a) a cyano group, (b) a halogen atom, (c) a C_{1-6} alkyl group optionally substituted by 1 to 3 halogen atoms and (d) a C_{1-6} alkylsulfonyl group.

6. A medicament comprising the compound according to claim 1 or a salt thereof.

7. The medicament according to claim 6, wherein the medicament is a CDK12 inhibitor.

8. The medicament according to claim 6, wherein the medicament is a prophylactic or therapeutic drug for cancer.

9. The compound according to claim 1, which is
1-(trans-4-((4-(4-chloro-1H-pyrazol-3-yl)-5-

(trifluoromethyl)pyrimidin-2-yl)amino)cyclohexyl)-3-(2,2-difluoroethyl)-1-(5-(2-methoxypyrimidin-5-yl)pyridin-2-yl)urea or a salt thereof.

10. The compound according to claim 1, which is 1-(trans-4-((4-(1-(difluoromethyl)-1H-pyrazol-3-yl)-5-(trifluoromethyl)pyrimidin-2-yl)amino)cyclohexyl)-3-ethyl-1-(5-(1-methyl-1H-pyrazol-4-yl)pyrazin-2-yl)urea or a salt thereof.

11. The compound according to claim 1, which is N-(trans-4-((4-(5-(methanesulfonyl)pyridin-3-yl)-5-(trifluoromethyl)pyrimidin-2-yl)amino)cyclohexyl)-N-(5-(2-methoxypyrimidin-5-yl)pyrazin-2-yl)butanamide or a salt thereof.

12. The compound according to claim 1, which is 1-(trans-4-((4-(1-(difluoromethyl)-1H-pyrazol-3-yl)-5-(trifluoromethyl)pyrimidin-2-yl)amino)cyclohexyl)-3-(2-hydroxy-2-methylpropyl)-1-(5-(2-methoxypyrimidin-5-yl)pyrazin-2-yl)urea or a salt thereof.

13. The compound according to claim 1, which is 2-hydroxy-2-methylpropyl (trans-4-((4-(5-(methanesulfonyl)pyridin-3-yl)-5-(trifluoromethyl)pyrimidin-2-yl)amino)cyclohexyl)(5-(2-methoxypyrimidin-5-yl)pyrazin-2-yl)carbamate or a salt thereof.

14. Use of the compound according to any one of claims 1 to 5, 9 to 13 or a salt thereof, in the manufacture of a medicament medicament for the prophylaxis or treatment of cancer.