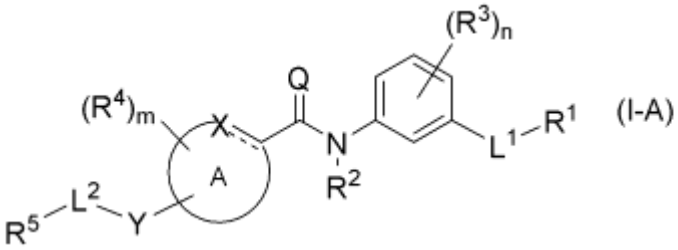
CLAIMS

1. A compound represented by general formula (I-A):



(wherein:

L^1 represents $-(CR^{38}R^{39})-(CR^{40}R^{41})-$;

R^{38}, R^{39}, R^{40} and R^{41} each independently represent (1) a hydrogen atom, (2) a halogen atom, or (3) a C1-4 alkyl group;

the C1-4 alkyl group in each of R^{38}, R^{39}, R^{40} and R^{41} may be independently substituted by a halogen atom;

when each of two substituents selected from R^{38}, R^{39}, R^{40} and R^{41} is a C1-4 alkyl group, the two substituents may form a C3-6 saturated carbocyclic ring in conjunction with a carbon atom to which the substituents bind;

L^2 represents (1) a bond, (2) a C1-8 alkylene group, (3) a C2-8 alkenylene group, or (4) a C2-8 alkynylene group, wherein one or two carbon atoms in the C1-8 alkylene group, the C2-8 alkenylene group and the C2-8 alkynylene group may be independently replaced by an oxygen atom or a sulfur atom that may be oxidized, and each of the C1-8 alkylene group, the C2-8 alkenylene group and the C2-8 alkynylene group may be substituted by 1 to 8 halogen atoms;

Y represents (1) a bond, (2) an oxygen atom, or (3) a sulfur atom that may be oxidized;

R^1 represents (1) $COOR^{10}$, (2) SO_3H, (3) SO_2NHR^{11}, (4) $CONHSO_2R^{12}$, (5) SO_2NHCOR^{13}, (6) $CONR^{14}R^{15}$, (7) a tetrazolyl group, or (8) a hydroxamic acid;

R^{10}, R^{11}, R^{12}, R^{13}, R^{14} and R^{15} each independently represent (1) a hydrogen atom or (2) a C1-4 alkyl group;

R^2 represents (1) a hydrogen atom or (2) a C1-4 alkyl group;

R^3 represents (1) a halogen atom, (2) a C1-6 alkyl group, (3) a C2-6 alkenyl group, (4) a C2-6 alkynyl group, (5) a C1-6 alkoxy group, (6) a 3- to 6-membered cyclic group, (7) a (3- to 6-membered cyclic group)-O-, or (8) a (3- to 6-membered cyclic group)-(C1-4 alkylene)-;

each of the groups (2) to (8) in R^3 may be substituted by 1 to 9 R^{16}s;

when there are a plurality of R^3s, the plurality of R^3s may be the same as or different from each other;

R^{16} represents (1) a halogen atom, (2) a C1-4 alkyl group, (3) a C1-4 alkoxy group, (4) a C2-6 acyl group, (5) a C3-6 cycloalkyl group, (6) a hydroxyl group, or (7) $-NR^{17}R^{18}$;

when there are a plurality of R^{16}s, the plurality of R^{16}s may be the same as or different from each other;

R^{17} and R^{18} each independently represent (1) a hydrogen atom or (2) a C1-4 alkyl group;

R^4 represents (1) a halogen atom, (2) a C1-6 alkyl group, (3) a C2-6 alkenyl group, (4) a C2-6 alkynyl group, (5) a C1-6 alkoxy group, (6) a 3- to 6-membered cyclic group, (7) (3- to 6-membered cyclic group)-O-, or (8) (3- to 6-membered cyclic group)-(C1-4 alkylene)-;

each of the groups (2) to (8) in R^4 may be substituted by 1 to 9 R^{19}s;

when there are a plurality of R^4s, the plurality of R^4s may be the same as or different from each other;

R^{19} represents (1) a halogen atom, (2) a C1-4 alkyl group, (3) a C1-4 alkoxy group, (4) a C2-6 acyl group, (5) a C3-6 cycloalkyl group, (6) a hydroxyl group, or (7) $-NR^{20}R^{21}$;

R^{20} and R^{21} each independently represent (1) a hydrogen atom or (2) a C1-4 alkyl group;

when there are a plurality of R^{19}s, the plurality of R^{19}s may be the same as or different from each other;

R^5 represents (1) a hydrogen atom, (2) a C3-10 carbocyclic ring, or (3) a 3- to 10-membered heterocyclic ring, wherein each of the C3-10 carbocyclic ring and the 3- to 10-membered heterocyclic ring may be substituted by 1 to 5 R^{22}s;

when L^2 represents a bond, R^5 is not a hydrogen atom;

R^{22} represents (1) a C1-6 alkyl group, (2) a C2-6 alkenyl group, (3) a C2-6 alkynyl group, (4) a C3-6 cycloalkyl group, (5) a C1-6 alkoxy group, (6) a C3-6 cycloalkyloxy group, (7) a C2-6 acyl group, (8) a C2-6 acyloxy group, (9) a C1-6 alkylthio group, (10) a C3-6 cycloalkylthio group, (11) a C1-6 alkylsulfinyl group, (12) a C3-6 cycloalkylsulfinyl group, (13) a C1-6 alkylsulfonyl group, (14) a C3-6 cycloalkylsulfonyl group, (15) a C1-6 alkoxycarbonyl group, (16) a 5- to 6-membered cyclic group, (17) (5- to 6-membered cyclic group)-(C1-4 alkylene)-, (18) a (5- to 6-membered cyclic group)-(C1-4 alkylene)-O- group, (19) a (5- to 6-membered cyclic group)-C1-4 acyl group, (20) a halogen atom, (21) a hydroxyl

group, (22) a nitro group, (23) a cyano group, (24) -$NR^{23}R^{24}$, (25) -$CONR^{25}R^{26}$ or (26) -$SO_2NR^{27}R^{28}$;

R^{23}, R^{24}, R^{25}, R^{26}, R^{27} and R^{28} each independently represent (1) a hydrogen atom, (2) a C1-6 alkyl group, (3) a C2-6 acyl group or (4) a C1-6 alkylsulfonyl group;

each of the groups (1) to (19) in R^{22} may be substituted by 1 to 9 R^{29}s;

when there are a plurality of R^{22}s, the plurality of R^{22}s may be the same as or different from each other;

R^{29} represents (1) a C1-4 alkyl group, (2) a C1-4 alkoxy group, (3) a C2-6 acyl group, (4) a C3-6 cycloalkyl group, (5) a hydroxyl group, (6) -$NR^{30}R^{31}$ or (7) a halogen atom;

R^{30} and R^{31} each independently represent (1) a hydrogen atom or (2) a C1-4 alkyl group;

when there are a plurality of R^{29}s, the plurality of R^{29}s may be the same as or different from each other;

Q represents (1) an oxygen atom or (2) a sulfur atom;

X represents (1) CR^6 or (2) NR^7;

R^6 represents (1) a halogen atom, (2) a C1-6 alkyl group, (3) a C2-6 alkenyl group, (4) a C2-6 alkynyl group, (5) a C1-6 alkoxy group, (6) a 3- to 6-membered cyclic group, (7) (3- to 6-membered cyclic group)-O-, or (8) (3- to 6-membered cyclic group)-(C1-4 alkylene)-;

each of the groups (2) to (8) in R^6 may be substituted by 1 to 9 R^{32}s;

R^{32} represents (1) a halogen atom, (2) a C1-4 alkyl group, (3) a C1-4 alkoxy group, (4) a C2-6 acyl group, (5) a C3-6 cycloalkyl group, (6) a hydroxyl group, or (7) -$NR^{33}R^{34}$;

R^{33} and R^{34} each independently represent (1) a hydrogen atom or (2) a C1-4 alkyl group;

when there are a plurality of R^{32}s, the plurality of R^{32}s may be the same as or different from each other;

R^7 represents (1) a C1-6 alkyl group, (2) a C2-6 alkenyl group, (3) a C2-6 alkynyl group, (4) a 3- to 6-membered cyclic group, or (5) (3- to 6-membered cyclic group)-(C1-4 alkylene)-;

R^7 may be substituted by 1 to 9 R^{35}s;

R^{35} represents (1) a halogen atom, (2) a C1-4 alkyl group, (3) a C1-4 alkoxy group, (4) a C2-6 acyl group, (5) a C3-6 cycloalkyl group, (6) a hydroxyl group, or (7) -$NR^{36}R^{37}$;

R^{36} and R^{37} each independently represent (1) a hydrogen atom or (2) a C1-4 alkyl group;

when there are a plurality of R^{35}s, the plurality of R^{35}s may be the same as or different from each other;

the ring A represents (1) a benzene ring, or (2) a 5- to 6-membered nitrogen-containing aromatic heterocyclic ring;

the symbol

in the ring A represents a single bond or a double bond;

n represents an integer of 1 to 4; and

m represents an integer of 0 to 3,

provided that 3-[3-[(2,6-dimethoxybenzoyl)amino]-4-propoxyphenyl]propanoic acid,

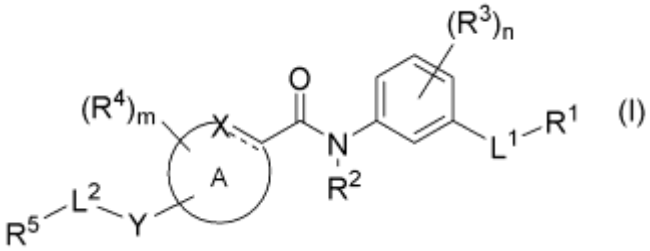
methyl 3-[5-({[1-tert-butyl-5-(4-fluorophenyl-1H-pyrazol-4-yl]carbonyl}amino-2-chlorophenyl]propanoate,

3-[5-({[1-tert-butyl-5-(4-fluorophenyl-1H-pyrazol-4-yl]carbonyl}amino-2-chlorophenyl]propanoic acid,

α-ethyl-3-[N-(1'-phenyl-5'-methyl-1',2',3'-triazolecarbonyl)]amino-2,4,6-triiodohydrocinnamic acid, and

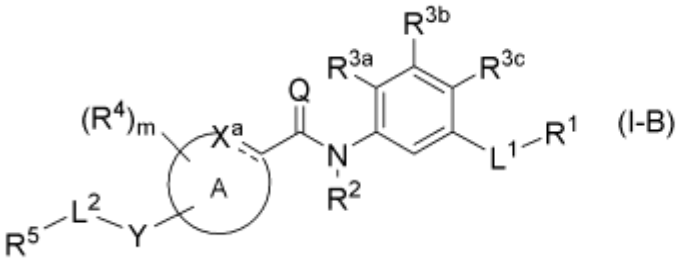
α-ethyl-3-{N-(1'-(4"-iodophenyl)-5'-methyl-1,2,3-triazolecarbonyl]}amino-2,4,6-triiodohydrocinnamic acid are excluded) or a pharmaceutically acceptable salt thereof.

2. The compound according to claim 1, or a pharmaceutically acceptable salt thereof, wherein the compound is a compound represented by general formula (I):



(wherein all symbols have the same meanings as those recited in claim 1).

3. The compound according to claim 1, or a pharmaceutically acceptable salt thereof, wherein the compound is a compound represented by general formula (I-B):



(wherein:

X^a represents CR^{6a} or NR^{7a};

R^{6a} represents (1) a halogen atom, (2) a C1-6 alkyl group, (3) a C2-6 alkenyl group, (4) a C2-6 alkynyl group, (5) a C1-6 alkoxy group, (6) (3- to 6-membered cyclic group)-O-, or (7) (3- to 6-membered cyclic group)-(C1-4 alkylene)-;

each of the groups (2) to (7) in R^{6a} may be substituted by 1 to 9 R^{32}s;

R^{7a} represents (1) a C1-6 alkyl group, (2) a C2-6 alkenyl group, (3) a C2-6 alkynyl group, (4) a 3- to 6-membered cyclic group, or (5) (3- to 6-membered cyclic group)-(C1-4 alkylene)-;

R^{7a} may be substituted by 1 to 9 R^{35}s;

R^{3a}, R^{3b} and R^{3c} each independently represent (1) a hydrogen atom, (2) a halogen atom, (3) a C1-6 alkyl group, (4) a C2-6 alkenyl group, (5) a C2-6 alkynyl group, (6) a C1-6 alkoxy group, (7) a 3- to 6-membered cyclic group, (8) (3- to 6-membered cyclic group)-O-, or (9) (3- to 6-membered cyclic group)-(C1-4 alkylene)-;

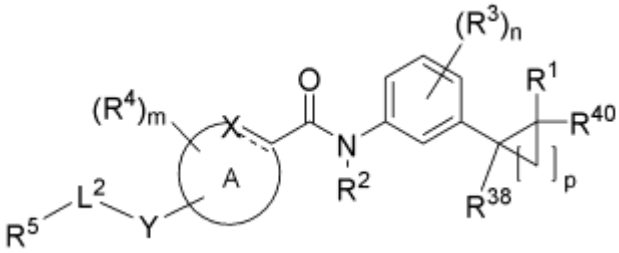
each of the groups (3) to (9) in R^{3a}, R^{3b} and R^{3c} may be substituted by 1 to 9 R^{16}s;

wherein at least one of R^{3a}, R^{3b} and R^{3c} represents a substituent other than a hydrogen atom; and

wherein the same symbols as those recited in claim 1 have the same meanings as those recited in claim 1;

provided that 3-[3-[(2,6-dimethoxybenzoyl)amino]-4-propoxyphenyl]propanoic acid is excluded).

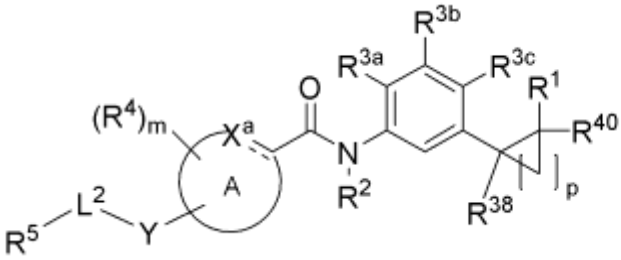
4. The compound according to claim 1 or 2, or a pharmaceutically acceptable salt thereof, wherein the compound is a compound represented by general formula (I-1):



(I-1)

(wherein p represents an integer of 1 to 4; and other symbols have the same meanings as those recited in claim 1).

5. The compound according to any one of claims 1 to 4, or a pharmaceutically acceptable salt thereof, wherein the compound is a compound represented by general formula (I-C):



(I-C)

(wherein:

X^a represents CR^{6a} or NR^{7a};

R^{6a} represents (1) a halogen atom, (2) a C1-6 alkyl group, (3) a C2-6 alkenyl group, (4) a C2-6 alkynyl group, (5) a C1-6 alkoxy group, (6) (3- to 6-membered cyclic group)-O-, or (7) (3- to 6-membered cyclic group)-(C1-4 alkylene)-;

each of the groups (2) to (7) in R^{6a} may be substituted by 1 to 9 R^{32}s;

R^{7a} represents (1) a C1-6 alkyl group, (2) a C2-6 alkenyl group, (3) a C2-6 alkynyl group, (4) a 3- to 6-membered cyclic group, or (5) (3- to 6-membered cyclic group)-(C1-4 alkylene)-;

R^{7a} may be substituted by 1 to 9 R^{35}s;

R^{3a}, R^{3b} and R^{3c} each independently represent (1) a hydrogen atom, (2) a halogen atom, (3) a C1-6 alkyl group, (4) a C2-6 alkenyl group, (5) a C2-6 alkynyl group, (6) a C1-6 alkoxy group, (7) a 3- to 6-membered cyclic group, (8) (3- to 6-membered cyclic group)-O-, or (9) (3- to 6-membered cyclic group)-(C1-4 alkylene)-;

each of the groups (3) to (9) in R^{3a}, R^{3b} and R^{3c} may be substituted by 1 to 9 R^{16}s;

wherein at least one of R^{3a}, R^{3b} and R^{3c} represents a substituent other than a hydrogen atom;

p represents an integer of 1 to 4; and

the same symbols as those recited in claim 1 have the same meanings as those recited in claim 1).

6. The compound according to any one of claims 1 to 5, or a pharmaceutically acceptable salt thereof, wherein the ring A is a benzene ring or a 5-membered nitrogen-containing aromatic heterocyclic ring.

7. The compound according to any one of claims 1 to 6, or a pharmaceutically acceptable salt thereof, wherein the ring A is a pyrrole ring and Y is a bond.

8. The compound according to any one of claims 1 to 6, or a pharmaceutically acceptable salt thereof, wherein the ring A is a benzene ring and Y is an oxygen atom.

9. The compound according to claim 1, or a pharmaceutically acceptable salt thereof, wherein the compound is selected from:

(1) rel-(1R,2S)-2-[3-({[1-sec-butyl-5-(3-phenylpropyl)-1H-pyrrole-2-carbonyl]amino)-4-(trifluoromethyl)phenyl]cyclopropanecarboxylic acid;

(2) rel-(1R,2S)-2-{3-[({1-[(2S)-2-butanyl]-5-(3-phenylpropyl)-1H-pyrrol-2-yl}carbonyl)amino]-4-(trifluoromethyl)phenyl}cyclopropanecarboxylic acid;

(3) rel-(1R,2S)-2-{3-[({1-[(2S)-2-butanyl]-5-(3-phenylpropyl)-1H-pyrrol-2-yl}carbonyl)amino]-5-methylphenyl}cyclopropanecarboxylic acid;

(4) rel-(1R,2R)-2-{3-[({1-[(2S)-2-butanyl]-5-(3-phenylpropyl)-1H-pyrrol-2-yl}carbonyl)amino]-5-methylphenyl}cyclopropanecarboxylic acid;

(5) rel-(1R,2S)-2-{5-[({1-[(2S)-2-butanyl]-5-(3-phenylpropyl)-1H-pyrrol-2-yl}carbonyl)amino]-2-(trifluoromethyl)phenyl}cyclopropanecarboxylic acid;

(6) rel-(1R,2R)-2-{5-[({1-[(2S)-2-butanyl]-5-(3-phenylpropyl)-1H-pyrrol-2-yl}carbonyl)amino]-2-(trifluoromethyl)phenyl}cyclopropanecarboxylic acid;

(7) (1S,2R)-2-[3-({[1-isopropyl-5-(3-phenylpropyl)-1H-pyrrol-2-yl]carbonyl}amino)-4-(trifluoromethyl)phenyl]cyclopropanecarboxylic acid;

(8) (1R,2R)-2-[3-({[1-isopropyl-5-(3-phenylpropyl)-1H-pyrrol-2-yl]carbonyl}amino)-4-(trifluoromethyl)phenyl]cyclopropanecarboxylic acid;

(9) (1R,2S)-2-{3-[({1-[(2S)-2-butanyl]-5-(3-phenylpropyl)-1H-pyrrol-2-yl}carbonyl)amino]-4-methoxyphenyl}cyclopropanecarboxylic acid;

(10) (1S,2R)-2-{3-[({1-[(2S)-2-butanyl]-5-(3-phenylpropyl)-1H-pyrrol-2-yl}carbonyl)amino]-4-(trifluoromethyl)phenyl}cyclopropanecarboxylic acid;

(11) (1R,2S)-2-{3-[({1-[(2S)-2-butanyl]-5-(3-phenylpropyl)-1H-pyrrol-2-yl}carbonyl)amino]-4-(trifluoromethyl)phenyl}cyclopropanecarboxylic acid;

(12) (1R,2S)-2-{3-[({1-[(2S)-2-butanyl]-5-(3-phenylpropyl)-1H-pyrrol-2-yl}carbonyl)amino]-4-chlorophenyl}cyclopropanecarboxylic acid;

(13) (1R,2S)-2-{3-[({5-[2-(benzyloxy)ethyl]-1-[(2S)-2-butanyl]-1H-pyrrol-2-yl}carbonyl)amino]-4-(trifluoromethyl)phenyl}cyclopropanecarboxylic acid;

(14) rel-(1R,2S)-2-[3-{[(1-[(2S)-2-butanyl]-5-{2-[(2-fluoro-4-pyridinyl)oxy]ethyl}-1H-pyrrol-2-yl)carbonyl]amino}-4-(trifluoromethyl)phenyl]cyclopropanecarboxylic acid;

(15) (1R,2S)-2-[3-{[(1-[(2S)-2-butanyl]-5-{2-[(2-chloro-6-fluoro-4-pyridinyl)oxy]ethyl}-1H-pyrrol-2-yl)carbonyl]amino}-4-(trifluoromethyl)phenyl]cyclopropanecarboxylic acid;

(16) (1R,2S)-2-{3-[({1-[(2S)-2-butanyl]-5-[2-(2-chloro-3,5-difluorophenoxy)ethyl]-1H-pyrrol-2-yl}carbonyl)amino]-4-(trifluoromethyl)phenyl}cyclopropanecarboxylic acid;

(17) (1R,2S)-2-{3-[({1-[(2S)-2-butanyl]-5-[2-(2,4-difluorophenoxy)ethyl]-1H-pyrrol-2-yl}carbonyl)amino]-4-(trifluoromethyl)phenyl}cyclopropanecarboxylic acid;

(18) (1R,2S)-2-[3-{[(1-[(2S)-2-butanyl]-5-{2-[(1-methyl-1H-pyrazol-4-yl)oxy]ethyl}-1H-pyrrol-2-yl)carbonyl]amino}-4-(trifluoromethyl)phenyl]cyclopropanecarboxylic acid;

(19) rel-(1R,2S)-2-[3-{[2,6-dimethyl-4-(2-phenylethoxy)benzoyl]amino}-4-(trifluoromethyl)phenyl]cyclopropanecarboxylic acid;

(20) (1R,2S)-2-[3-{[2,6-dimethyl-4-(3-phenylpropyl)benzoyl]amino}-4-(trifluoromethyl)phenyl]cyclopropanecarboxylic acid;

(21) (1R,2S)-2-[3-({4-[2-(2,4-difluorophenyl)ethoxy]-2,6-dimethylbenzoyl}amino)-4-(trifluoromethyl)phenyl]cyclopropanecarboxylic acid;

(22) rel-(1R,2S)-2-(2,3-dichloro-5-{[2,6-dimethyl-4-(2-phenylethoxy)benzoyl]amino}-4-fluorophenyl)cyclopropanecarboxylic acid;

(23) rel-(1R,2R)-2-(2,3-dichloro-5-{[2,6-dimethyl-4-(2-phenylethoxy)benzoyl]amino}-4-fluorophenyl)cyclopropanecarboxylic acid;

(24) (1R,2S)-2-[2-chloro-5-{[2,6-dimethyl-4-(2-phenylethoxy)benzoyl]amino}-4-(trifluoromethyl)phenyl]cyclopropanecarboxylic acid;

(25) (1R,2S)-2-(4-chloro-3-{[2,6-dimethyl-4-(2-phenylethoxy)benzoyl]amino}phenyl)cyclopropanecarboxylic acid;

(26) rel-(1R,2S)-2-(2,3-dichloro-5-{[2,6-dimethyl-4-(2-phenylethoxy)benzoyl]amino}phenyl)cyclopropanecarboxylic acid;

(27) rel-(1R,2R)-2-(2,3-dichloro-5-{[2,6-dimethyl-4-(2-phenylethoxy)benzoyl]amino}phenyl)cyclopropanecarboxylic acid;

(28) (1R,2S)-2-[3-{[2,6-dimethyl-4-(2-phenylethoxy)benzoyl]amino}-4-(trifluoromethyl)phenyl]cyclopropanecarboxylic acid;

(29) (1S,2R)-2-[3-{[2,6-dimethyl-4-(2-phenylethoxy)benzoyl]amino}-4-(trifluoromethyl)phenyl]cyclopropanecarboxylic acid;

(30) (1R,2S)-2-[3-({2,6-dimethyl-4-[2-(1-methyl-1H-pyrazol-4-yl)ethoxy]benzoyl}amino)-4-(trifluoromethyl)phenyl]cyclopropanecarboxylic acid;

(31) (1R,2S)-2-[3-{[4-(2-cyclopropylethoxy)-2,6-dimethylbenzoyl]amino}-4-(trifluoromethyl)phenyl]cyclopropanecarboxylic acid;

(32) (1R,2S)-2-{3-[(2,6-dimethyl-4-propoxybenzoyl)amino]-4-(trifluoromethyl)phenyl}cyclopropanecarboxylic acid;

(33) (1R,2S)-2-[3-{[4-(hexyloxy)-2,6-dimethylbenzoyl]amino}-4-(trifluoromethyl)phenyl]cyclopropanecarboxylic acid;

(34) (1R,2S)-2-[3-{[4-(benzyloxy)-2,6-dimethylbenzoyl]amino}-4-(trifluoromethyl)phenyl]cyclopropanecarboxylic acid;

(35) (1R,2S)-2-[3-{[4-(2-methoxyethoxy)-2,6-dimethylbenzoyl]amino}-4-(trifluoromethyl)phenyl]cyclopropanecarboxylic acid;

(36) (1R,2S)-2-[3-({2,6-dimethyl-4-[2-(tetrahydro-2H-pyran-2-yl)ethoxy]benzoyl}amino)-4-(trifluoromethyl)phenyl]cyclopropanecarboxylic acid;

(37) (1R,2S)-2-[3-({4-[2-(2-furyl)ethoxy]-2,6-dimethylbenzoyl}amino)-4-(trifluoromethyl)phenyl]cyclopropanecarboxylic acid;

(38) (1R,2S)-2-[3-({4-[2-(2-chlorophenyl)ethoxy]-2,6-dimethylbenzoyl}amino)-4-(trifluoromethyl)phenyl]cyclopropanecarboxylic acid;

(39) (1R,2S)-2-[3-({4-[2-(3-chlorophenyl)ethoxy]-2,6-dimethylbenzoyl}amino)-4-(trifluoromethyl)phenyl]cyclopropanecarboxylic acid;

(40) (1R,2S)-2-[3-({4-[2-(1H-imidazol-1-yl)ethoxy]-2,6-dimethylbenzoyl}amino)-4-(trifluoromethyl)phenyl]cyclopropanecarboxylic acid;

(41) (1R,2S)-2-[3-({4-[2-(2,6-difluorophenyl)ethoxy]-2,6-dimethylbenzoyl}amino)-4-(trifluoromethyl)phenyl]cyclopropanecarboxylic acid;

(42) (1R,2S)-2-[3-({4-[2-(3,5-difluorophenyl)ethoxy]-2,6-dimethylbenzoyl}amino)-4-(trifluoromethyl)phenyl]cyclopropanecarboxylic acid;

(43) (1R,2S)-2-[3-({4-[(6-chloro-2-pyrazinyl)oxy]-2,6-dimethylbenzoyl}amino)-4-(trifluoromethyl)phenyl]cyclopropanecarboxylic acid;

(44) (1R,2S)-2-[3-{[4-(6-fluoro-3-pyridinyl)-2,6-dimethylbenzoyl]amino}-4-(trifluoromethyl)phenyl]cyclopropanecarboxylic acid;

(45) (1R,2S)-2-[3-({4-[2-(4-hydroxyphenyl)ethoxy]-2,6-dimethylbenzoyl}amino)-4-(trifluoromethyl)phenyl]cyclopropanecarboxylic acid;

(46) 3-[3-{[2,6-dimethyl-4-(2-phenylethoxy)benzoyl]amino}-4-(trifluoromethyl)phenyl]propanoic acid;

(47) 3-[3-{[2,6-dimethyl-4-(2-phenylethoxy)benzoyl]amino}-4-(trifluoromethyl)phenyl]butanoic acid;

(48) 3-[3-{[2,6-dimethyl-4-(2-phenylethoxy)benzoyl]amino}-4-(trifluoromethyl)phenyl]-2-methylpropanoic acid;

(49) (1R,2S)-2-[3-{[2,6-dimethyl-4-(2-phenylethoxy)benzoyl]amino}-4-(trifluoromethyl)phenyl]cyclobutanecarboxylic acid; or

(50) (1R,2R)-2-[3-{[2,6-dimethyl-4-(2-phenylethoxy)benzoyl]amino}-4-(trifluoromethyl)phenyl]-1-methylcyclopropanecarboxylic acid.

10. The compound according to claim 1, or a pharmaceutically acceptable salt thereof, wherein the compound is selected from:

(1) (1R,2S)-2-[3-{[2-methyl-4-(2-phenylethoxy)benzoyl]amino}-4-(trifluoromethyl)phenyl]cyclopropanecarboxylic acid;

(2) (1R,2S)-2-[3-{[2-chloro-4-(2-phenylethoxy)benzoyl]amino}-4-(trifluoromethyl)phenyl]cyclopropanecarboxylic acid;

(3) (1R,2S)-2-[3-{[4-(2-phenylethoxy)-2-(trifluoromethyl)benzoyl]amino}-4-(trifluoromethyl)phenyl]cyclopropanecarboxylic acid;

(4) (1R,2S)-2-[3-{[4-(1H-indazol-5-ylmethoxy)-2,6-dimethylbenzoyl]amino}-4-(trifluoromethyl)phenyl]cyclopropanecarboxylic acid;

(5) (1R,2S)-2-[3-{[2,6-dimethyl-4-(1,2,3,4-tetrahydro-1-naphthalenylmethoxy)benzoyl]amino}-4-(trifluoromethyl)phenyl]cyclopropanecarboxylic acid;

(6) (1R,2S)-2-[3-({2,6-dimethyl-4-[2-(3-pyridinyl)ethoxy]benzoyl}amino)-4-(trifluoromethyl)phenyl]cyclopropanecarboxylic acid;

(7) (1R,2S)-2-[3-({2,6-dimethyl-4-[2-(4-pyridinyl)ethoxy]benzoyl}amino)-4-(trifluoromethyl)phenyl]cyclopropanecarboxylic acid;

(8) (1R,2S)-2-[3-({2,6-dimethyl-4-[2-(2-pyridinyl)ethoxy]benzoyl}amino)-4-(trifluoromethyl)phenyl]cyclopropanecarboxylic acid;

(9) (1R,2S)-2-[3-({4-[2-(2-chloro-1H-imidazol-1-yl)ethoxy]-2,6-dimethylbenzoyl}amino)-4-(trifluoromethyl)phenyl]cyclopropanecarboxylic acid;

(10) (1R,2S)-2-[3-({4-[2-(2-fluorophenyl)ethoxy]-2,6-dimethylbenzoyl}amino)-4-(trifluoromethyl)phenyl]cyclopropanecarboxylic acid;

(11) (1R,2S)-2-[3-({4-[2-(3-fluorophenyl)ethoxy]-2,6-dimethylbenzoyl}amino)-4-(trifluoromethyl)phenyl]cyclopropanecarboxylic acid;

(12) (1R,2S)-2-[3-({4-[2-(4-fluorophenyl)ethoxy]-2,6-dimethylbenzoyl}amino)-4-(trifluoromethyl)phenyl]cyclopropanecarboxylic acid;

(13) (1R,2S)-2-[3-{[2,6-dimethyl-4-(3,3,3-trifluoropropoxy)benzoyl]amino}-4-(trifluoromethyl)phenyl]cyclopropanecarboxylic acid;

(14) (1R,2S)-2-[3-{[2,6-dimethyl-4-(3,3,3-trifluoro-2-methylpropoxy)benzoyl]amino}-4-(trifluoromethyl)phenyl]cyclopropanecarboxylic acid;

(15) (1R,2S)-2-{3-[(2,6-dimethyl-4-{[6-(trifluoromethyl)-2-pyridinyl]oxy}benzoyl)amino]-4-(trifluoromethyl)phenyl}cyclopropanecarboxylic acid;

(16) (1R,2S)-2-[3-{[2,6-dimethyl-4-(pyrazolo[1,5-a]pyrimidin-5-yloxy)benzoyl]amino}-4-(trifluoromethyl)phenyl]cyclopropanecarboxylic acid;

(17) rel-(1R,2S)-2-(3-{[2,6-dimethyl-4-(2-phenylethoxy)benzoyl]amino}-4-methylphenyl)cyclopropanecarboxylic acid;

(18) (1R,2S)-2-[3-{[4-(benzyloxy)-2-isopropylbenzoyl]amino}-4-(trifluoromethyl)phenyl]cyclopropanecarboxylic acid;

(19) (1R,2S)-2-[3-{[2-isopropyl-4-(2-phenylethoxy)benzoyl]amino}-4-(trifluoromethyl)phenyl]cyclopropanecarboxylic acid;

(20) (1R,2S)-2-[3-{[2-isopropyl-4-(3-phenylpropoxy)benzoyl]amino}-4-(trifluoromethyl)phenyl]cyclopropanecarboxylic acid;

(21) (1R,2S)-2-[3-{[3-(benzyloxy)-2-isopropylbenzoyl]amino}-4-(trifluoromethyl)phenyl]cyclopropanecarboxylic acid;

(22) (1R,2S)-2-[3-{[2-isopropyl-3-(2-phenylethoxy)benzoyl]amino}-4-(trifluoromethyl)phenyl]cyclopropanecarboxylic acid;

(23) (1R,2S)-2-[3-{[2-isopropyl-3-(3-phenylpropoxy)benzoyl]amino}-4-(trifluoromethyl)phenyl]cyclopropanecarboxylic acid;

(24) (1R,2S)-2-[4-(trifluoromethyl)-3-{[2,3,5-trimethyl-4-(2-phenylethoxy)benzoyl]amino}phenyl]cyclopropanecarboxylic acid;

(25) (1R,2S)-2-[3-({[3-isopropyl-1-(3-phenylpropyl)-1H-pyrazol-4-yl]carbonyl}amino)-4-(trifluoromethyl)phenyl]cyclopropanecarboxylic acid;

(26) (1R,2S)-2-[3-({[5-isopropyl-1-(3-phenylpropyl)-1H-pyrazol-4-yl]carbonyl}amino)-4-(trifluoromethyl)phenyl]cyclopropanecarboxylic acid;

(27) (1R,2S)-2-[3-({[2,6-dimethyl-4-(2-phenylethoxy)phenyl]carbonothioyl}amino)-4-(trifluoromethyl)phenyl]cyclopropanecarboxylic acid;

(28) (1R,2S)-2-[3-({[4-(2-cyclopropylethoxy)-2,6-dimethylphenyl]carbonothioyl}amino)-4-(trifluoromethyl)phenyl]cyclopropanecarboxylic acid;

(29) (1R,2S)-2-[3-({[2-sec-butyl-1-(3-phenylpropyl)-1H-pyrrol-3-yl]carbonyl}amino)-4-(trifluoromethyl)phenyl]cyclopropanecarboxylic acid;

(30) (1R,2S)-2-[3-({[2-isopropyl-1-(3-phenylpropyl)-1H-pyrrol-3-yl]carbonyl}amino)-4-(trifluoromethyl)phenyl]cyclopropanecarboxylic acid; or

(31) (1R,2S)-2-[3-({[2-(2-methyl-2-propanyl)-1-(3-phenylpropyl)-1H-pyrrol-3-yl]carbonyl}amino)-4-(trifluoromethyl)phenyl]cyclopropanecarboxylic acid.

11. A pharmaceutical composition comprising the compound according to any one of claims 1 to 10 or a pharmaceutically acceptable salt thereof as an active ingredient, and further comprising a pharmaceutically acceptable carrier.

12. The pharmaceutical composition according to claim 11, wherein the pharmaceutical composition is an EP_2 receptor antagonist.

13. The pharmaceutical composition according to claim 11 or 12, wherein the pharmaceutical composition is a therapeutic and/or prophylactic agent for a disease associated with the activation of an EP_2 receptor.

14. The pharmaceutical composition according to claim 13, wherein the disease associated with the activation of an EP_2 receptor is endometriosis, uterine fibroids, hypermenorrhea, adenomyosis, dysmenorrhea, chronic pelvic pain syndrome, cancer, inflammatory pain, neuropathic pain, headache, migraine, postoperative pain, interstitial cystitis, leiomyoma, irritable colon syndrome, Alzheimer’s disease, Parkinson’s disease, amyotrophic lateral sclerosis, multiple sclerosis, rheumatism, osteoarthritis, gout, an allergic disease, hypertension, brain dysfunction, ischemia, stroke, a kidney disease, transplant

rejection, atherosclerosis, an ischemic heart disease, acne vulgaris, asthma, prostatitis, glomerulonephritis, sarcoidosis, vasculitis, or an autoimmune disease.

15. The pharmaceutical composition according to claim 13 or 14, wherein the disease associated with the activation of an EP_2 receptor is cancer, and the cancer is breast cancer, ovarian cancer, colorectal cancer, lung cancer, prostate cancer, head and neck cancer, lymphoma, uveal melanoma, thymoma, mesothelioma, esophageal cancer, stomach cancer, duodenal cancer, hepatocellular carcinoma, bile duct cancer, gallbladder cancer, pancreatic cancer, renal cell carcinoma, renal pelvis/ureteral cancer, bladder cancer, penile cancer, testicular cancer, uterine cancer, vaginal cancer, vulvar cancer, skin cancer, malignant bone tumor, soft tissue sarcoma, chondrosarcoma, leukemia, myelodysplastic syndrome, brain tumor or multiple myeloma.

16. The pharmaceutical composition according to any one of claims 11 to 15, wherein the pharmaceutical composition is administered in combination with at least one component selected from an alkylating agent, an antimetabolic agent, an anticancer antibiotic, a plant-derived preparation, a hormonal agent, a platinum compound, a topoisomerase inhibitor, a kinase inhibitor, an anti-CD20 antibody, an anti-HER2 antibody, an anti-EGFR antibody, an anti-VEGF antibody, a proteasome inhibitor, an HDAC inhibitor and an immunomodulatory drug.

17. The compound according to any one of claims 1 to 10 or a pharmaceutically acceptable salt thereof, for use in the prevention and/or treatment of a disease associated with the activation of an EP_2 receptor.

18. Use of the compound according to any one of claims 1 to 10 or a pharmaceutically acceptable salt thereof, in the manufacture of a medicament for the prevention and/or ttreatment of a disease associated with the activation of an EP_2 receptor, wherein the disease associated with the activation of an EP_2 receptor is endometriosis, uterine fibroids, hypermenorrhea, adenomyosis, dysmenorrhea, chronic pelvic pain syndrome, cancer, inflammatory pain, neuropathic pain, headache, migraine, postoperative pain, interstitial cystitis, leiomyoma, irritable colon syndrome, Alzheimer’s disease, Parkinson’s disease, amyotrophic lateral sclerosis, multiple sclerosis, rheumatism, osteoarthritis, gout, an allergic disease, hypertension, brain dysfunction, ischemia, stroke, a kidney disease, transplant rejection, atherosclerosis, an ischemic heart disease, acne vulgaris, asthma, prostatitis, glomerulonephritis, sarcoidosis, vasculitis, an autoimmune disease or cancer.

19. The use according to claim 18, wherein the cancer is breast cancer, ovarian cancer, colorectal cancer, lung cancer, prostate cancer, head and neck cancer, lymphoma, uveal melanoma, thymoma, mesothelioma, esophageal cancer, stomach cancer, duodenal cancer, hepatocellular carcinoma, bile duct cancer, gallbladder cancer, pancreatic cancer, renal cell carcinoma, renal pelvis/ureteral cancer, bladder cancer, penile cancer, testicular cancer, uterine cancer, vaginal cancer, vulvar cancer, skin cancer, malignant bone tumor, soft tissue sarcoma, chondrosarcoma, leukemia, myelodysplastic syndrome, brain tumor or multiple myeloma.

20. A compound of formula (1R,2S)-2-[3-{[2,6-dimethyl-4-(2-phenylethoxy)benzoyl]amino}-4-(trifluoromethyl)phenyl]cyclopropanecarboxylic acid, or a pharmaceutically acceptable salt thereof.