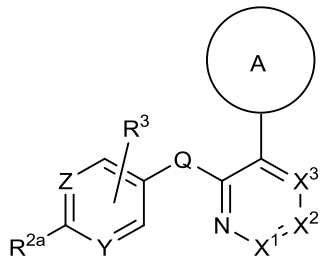
CLAIMS

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



(I)

wherein,

Q is O,

X^1, X^2 and X^3 are each independently CH, CR^1 or N,

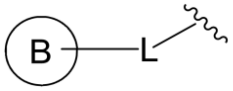
Y is CH or N,

Z is CR^{2b} or N,

R^1 is a hydrogen atom, a halogen atom, a C_1-C_6 alkyl group, a C_1-C_6 haloalkyl group, a C_1-C_6 alkoxy group or a C_1-C_6 haloalkoxy group,

R^{2a} and R^{2b} are each independently a hydrogen atom, a halogen atom, a hydroxyl group, a cyano group, a formyl group, an optionally substituted C_1-C_6 alkyl group, an optionally substituted C_1-C_6 haloalkyl group, an optionally substituted C_1-C_6 alkoxy group, an optionally substituted C_1-C_6 haloalkoxy group, an optionally substituted C_1-C_4 alkoxy-C_1-C_4 alkyl group, an optionally substituted C_1-C_4 alkoxy-C_1-C_4 haloalkyl group, an optionally substituted C_1-C_6 alkylcarbonyl group, an optionally substituted C_1-C_6 alkoxycarbonyl group, an optionally substituted C_1-C_6 alkylcarbonyloxy group, an optionally substituted C_3-C_7 cycloalkyl group, an optionally substituted heterocycloalkyl group, an optionally substituted heterocycloalkyloxy group, an optionally substituted C_2-C_6 alkenyl group, an optionally substituted C_2-C_6 alkenyloxy group, an optionally substituted C_2-C_6 alkenyl-C_1-C_6 alkyl group, an optionally substituted C_2-C_6 alkenyl-C_1-C_6 alkoxy group, an optionally substituted C_2-C_6 alkenyloxy-C_1-C_4 alkyl group, an

optionally substituted C_2-C_6 alkenyloxy-C_1-C_4 alkoxy group, an optionally substituted C_2-C_6 alkenyloxy-C_1-C_4 haloalkyl group, an optionally substituted C_2-C_6 alkenyloxy-C_1-C_4 haloalkoxy group, an optionally substituted C_2-C_6 alkynyl group, an optionally substituted C_2-C_6 alkynyloxy group, an optionally substituted C_2-C_6 alkynyl-C_1-C_6 alkyl group, an optionally substituted C_2-C_6 alkynyl-C_1-C_6 alkoxy group, an optionally substituted C_2-C_6 alkynyloxy-C_1-C_4 alkyl group, an optionally substituted C_2-C_6 alkynyloxy-C_1-C_4 alkoxy group, an optionally substituted C_2-C_6 alkynyloxy-C_1-C_4 haloalkyl group, an optionally substituted C_2-C_6 alkynyloxy-C_1-C_4 haloalkoxy group, $-NR^aR^b$, where R^a and R^b are each independently (i) a hydrogen atom or (ii) an optionally substituted C_1-C_6 alkyl group, provided that R^a and R^b are not hydrogen atoms at the same time, an optionally substituted C_1-C_6 alkylthio group, an optionally substituted C_1-C_6 haloalkylthio group, a pentafluorosulfanyl group, or a group represented by the formula (I-A)



(I-A)

wherein,

L is a single bond, $-(CH_2)_p-$, $-O(CH_2)_p-$, $-(CH_2)_pO-$, $-(CH_2)_pO(CH_2)_q-$, $-NR^c(CH_2)_p-$, $-(CH_2)_pNR^c-$ or $-(CH_2)_pNR^c(CH_2)_q-$, wherein one or more hydrogen atoms of $(CH_2)_p$ and $(CH_2)_q$ are each optionally substituted by a halogen atom, a C_1-C_4 alkyl group or a C_3-C_7 cycloalkyl group,

p is 1, 2 or 3,

q is 1, 2 or 3,

R^c is a hydrogen atom or a C_1-C_6 alkyl group, and

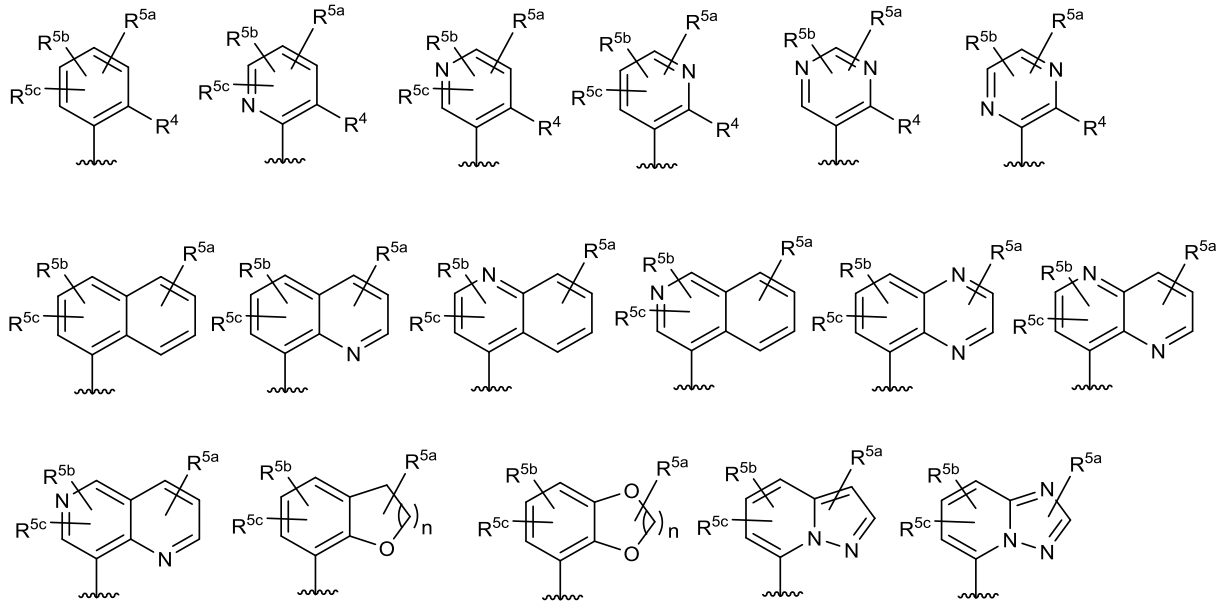
ring B is an optionally substituted carbocycle, or an optionally substituted heterocycle, or

when Z is CR^{2b}, R^{2a} and R^{2b} may be joined to form $-(CH_2)_r-$, where r is 3, 4, 5 or 6, optionally substituted by a halogen atom, a hydroxyl group or an oxo group,

wherein R^{2a} and R^{2b} are not hydrogen atoms at the same time,

R^3 is a hydrogen atom, a halogen atom, an optionally substituted C_1-C_6 alkyl group, a C_1-C_6 haloalkyl group, an optionally substituted C_1-C_6 alkoxy group, a C_1-C_6 haloalkoxy group, an optionally substituted C_3-C_7 cycloalkyl group, an optionally substituted C_2-C_6 alkenyl group, an optionally substituted C_2-C_6 alkynyl group, or an optionally substituted aralkyl group,

ring A is a ring selected from the group consisting of the following formulas:



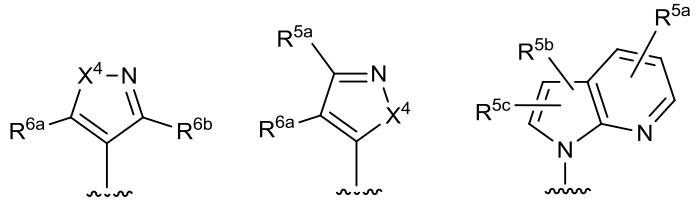
wherein n is 1 or 2,

R^4 is a halogen atom, a cyano group, a hydroxyl group, an optionally substituted C_1-C_6 alkyl group, a C_1-C_6 haloalkyl group, an optionally substituted C_3-C_7 cycloalkyl group, a heterocycloalkyl group, heterocycloalkyloxy group, a 5-membered ring heteroaryl group, an optionally substituted C_1-C_6 alkoxy group, a C_1-C_6 haloalkoxy group, a C_2-C_6 alkenyl group, a C_2-C_6 alkenyl-C_1-C_6 alkoxy group, a C_2-C_6 alkynyl group, a C_2-C_6 alkynyl-C_1-C_6 alkoxy group, a C_1-C_6 alkylthio group, $-NR^dR^e$, where R^d and R^e are each independently (i) a hydrogen atom or (ii) a C_1-C_6 alkyl group, a nitro group, a formyl group, a C_1-C_6 alkylcarbonyl group, a C_1-C_6 alkoxycarbonyl group or a C_1-C_6 alkylcarbonyloxy group, and

R^{5a}, R^{5b} and R^{5c} are each independently a hydrogen atom, a

halogen atom, a cyano group, a C_1-C_6 alkyl group, a C_1-C_6 alkoxy group, a C_1-C_6 haloalkyl group, a C_1-C_6 haloalkoxy group, a C_3-C_7 cycloalkyl group, a C_1-C_6 alkylcarbonyl group or a C_1-C_6 alkoxycarbonyl group, or

ring A is a ring selected from the group consisting of the following formulas:

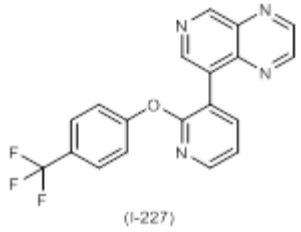


wherein X^4 is NR^f, where R^f is (i) a hydrogen atom or (ii) a C_1-C_6 alkyl group, O or S,

R^{5a}, R^{5b} and R^{5c} are each independently a hydrogen atom, a halogen atom, a cyano group, a C_1-C_6 alkyl group, a C_1-C_6 alkoxy group, a C_1-C_6 haloalkyl group, a C_1-C_6 haloalkoxy group, a C_3-C_7 cycloalkyl group, a C_1-C_6 alkylcarbonyl group or a C_1-C_6 alkoxycarbonyl group, and

R^{6a} and R^{6b} are each independently a hydrogen atom, a halogen atom, an optionally substituted C_1-C_6 alkyl group, a C_1-C_6 haloalkyl group, an optionally substituted C_3-C_7 cycloalkyl group, an optionally substituted C_1-C_6 alkoxy group, a C_1-C_6 haloalkoxy group, or an optionally substituted C_1-C_6 alkylthio group,

or wherein formula (I) is compound (I-227) represented by the following formula or a salt thereof:



(I-227)

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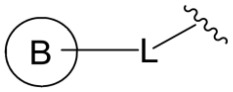
2. The biaryl derivative according to claim 1 or a salt thereof, wherein, in the aforementioned formula (I),

R^{2a} and R^{2b} are each independently a hydrogen atom, a halogen atom, a cyano group, a C_1-C_6 alkyl group, a C_1-C_6 alkyl

group substituted by $-OR^g$, where R^g is (a)(i) a C_1-C_6 alkyl group, (a)(ii) a C_1-C_6 haloalkyl group, (a)(iii) a C_1-C_4 alkoxy-C_1-C_4 alkyl group, (a)(iv) a C_2-C_6 alkenyl-C_1-C_6 alkyl group, (a)(v) a C_2-C_6 alkynyl-C_1-C_6 alkyl group, (a)(vi) a cyanomethyl group, (a)(vii) $-CONR^jR^k$, where R^j and R^k are each independently (b)(i) a hydrogen atom or (b)(ii) a C_1-C_6 alkyl group, (a)(viii) a C_3-C_7 cycloalkyl group, or (a)(ix) a C_1-C_6 alkylcarbonyl group, a C_1-C_6 alkyl group substituted by a C_1-C_6 alkoxycarbonyl group, a C_1-C_6 alkyl group substituted by a cyano group, a C_1-C_6 haloalkyl group, a C_1-C_6 haloalkyl group substituted by a heterocycloalkyl group, a C_1-C_6 haloalkyl group substituted by $-NR^hR^i$, where R^h is a C_1-C_6 alkyl group, and R^i is (i) a hydrogen atom, (ii) a C_1-C_6 alkyl group, (iii) a C_1-C_6 alkoxy group, (iv) a cyanomethyl group, (v) a C_1-C_6 alkylcarbonyl group or (vi) a C_1-C_6 alkoxycarbonyl group, a C_1-C_6 alkoxy group, a C_1-C_6 alkoxy group substituted by a C_1-C_6 alkoxycarbonyl group, a C_1-C_6 haloalkoxy group, a C_1-C_4 alkoxy-C_1-C_4 alkyl group, a C_1-C_4 alkoxy-C_1-C_4 haloalkyl group, a C_1-C_4 alkoxy-C_1-C_4 haloalkyl group substituted by C_1-C_4 alkoxy, a C_1-C_6 alkylcarbonyl group, a C_1-C_6 alkoxycarbonyl group, a C_1-C_6 alkylcarbonyloxy group, a C_3-C_7 cycloalkyl group, a C_3-C_7 cycloalkyl group substituted by a C_1-C_6 alkyl group, a C_3-C_7 cycloalkyl group substituted by a C_1-C_4 alkoxy-C_1-C_4 alkyl group, a heterocycloalkyl group, a heterocycloalkyloxy group, a C_2-C_6 alkenyl group, a C_2-C_6 alkenyloxy group, a C_2-C_6 alkenyl-C_1-C_6 alkyl group, a C_2-C_6 alkenyl-C_1-C_6 alkoxy group, a C_2-C_6 alkenyloxy-C_1-C_4 alkyl group, a C_2-C_6 alkenyloxy-C_1-C_4 alkoxy group, a C_2-C_6 alkenyloxy-C_1-C_4 haloalkyl group, a C_2-C_6 alkenyloxy-C_1-C_4 haloalkoxy group, a C_2-C_6 alkynyl group, a C_2-C_6 alkynyloxy group, a C_2-C_6 alkynyl-C_1-C_6 alkyl group, a C_2-C_6 alkynyl-C_1-C_6 alkoxy group, a C_2-C_6 alkynyloxy-C_1-C_4 alkyl group, a C_2-C_6 alkynyloxy-C_1-C_4 alkoxy group, a C_2-C_6 alkynyloxy-C_1-C_4 haloalkyl group, a C_2-C_6 alkynyloxy-C_1-C_4 haloalkoxy group, $-NR^aR^b$, where R^a and R^b are each independently (i) a hydrogen atom, (ii) a C_1-C_6 alkyl group, (iii) a C_1-C_6 alkyl group

substituted by a cyano group, (iv) a C_1-C_6 alkyl group substituted by a C_1-C_4 alkoxy group, (v) a C_1-C_6 alkyl group substituted by a C_1-C_6 alkoxycarbonyl group, (vi) a C_1-C_6 alkyl group substituted by a C_3-C_7 cycloalkyl group, or (vii) a C_1-C_6 alkyl group substituted by a C_2-C_6 alkenyl group, provided that R^a and R^b are not hydrogen atoms at the same time, a C_1-C_6 alkylthio group, a C_1-C_6 haloalkylthio group, a pentafluorosulfanyl group, or a group represented by the formula (I-A)



(I-A)

wherein,

L is a single bond, $-(CH_2)_p-$, $-O(CH_2)_p-$, $-(CH_2)_pO-$, $-NR^c(CH_2)_p-$ or $-(CH_2)_pNR^c-$, wherein one or more hydrogen atom of $(CH_2)_p$ are optionally substituted by a halogen atom,

p is 1 or 2,

R^c is a hydrogen atom or a methyl group, and

ring B is phenyl, pyrrolyl, furyl, thienyl, imidazolyl, triazolyl, pyrazolyl, oxazolyl, isoxazolyl, thiazolyl, isothiazolyl, thiadiazolyl, oxadiazolyl, pyridyl, pyridazinyl, pyrimidinyl, or pyrazinyl, or

when Z is CR^{2b}, R^{2a} and R^{2b} may be joined to form $-(CH_2)_r-$, where r is 3, 4, 5 or 6, optionally substituted by a halogen atom, a hydroxyl group or an oxo group,

wherein R^{2a} and R^{2b} are not hydrogen atoms at the same time,

R^3 is a hydrogen atom, a halogen atom, a C_1-C_6 alkyl group, a C_1-C_6 haloalkyl group, a C_1-C_6 alkoxy group, a C_1-C_6 haloalkoxy group, a C_3-C_7 cycloalkyl group, a C_2-C_6 alkenyl group, a C_2-C_6 alkynyl group, or an aralkyl group,

R^4 is a halogen atom, a cyano group, a hydroxyl group, a C_1-C_6 alkyl group, a C_1-C_6 haloalkyl group, a C_3-C_7 cycloalkyl group, a heterocycloalkyl group, heterocycloalkyloxy group, a 5-membered ring heteroaryl group, a C_1-C_6 alkoxy group, a C_1-C_6 haloalkoxy group, a C_2-C_6 alkenyl group, a C_2-C_6 alkenyl-C_1-C_6

alkoxy group, a C_2-C_6 alkynyl group, a C_2-C_6 alkynyl-C_1-C_6 alkoxy group, a C_1-C_6 alkylthio group, $-NR^dR^e$, where R^d and R^e are each independently (i) a hydrogen atom or (ii) a C_1-C_6 alkyl group, a nitro group, a formyl group, a C_1-C_6 alkylcarbonyl group, a C_1-C_6 alkoxycarbonyl group or a C_1-C_6 alkylcarbonyloxy group, and

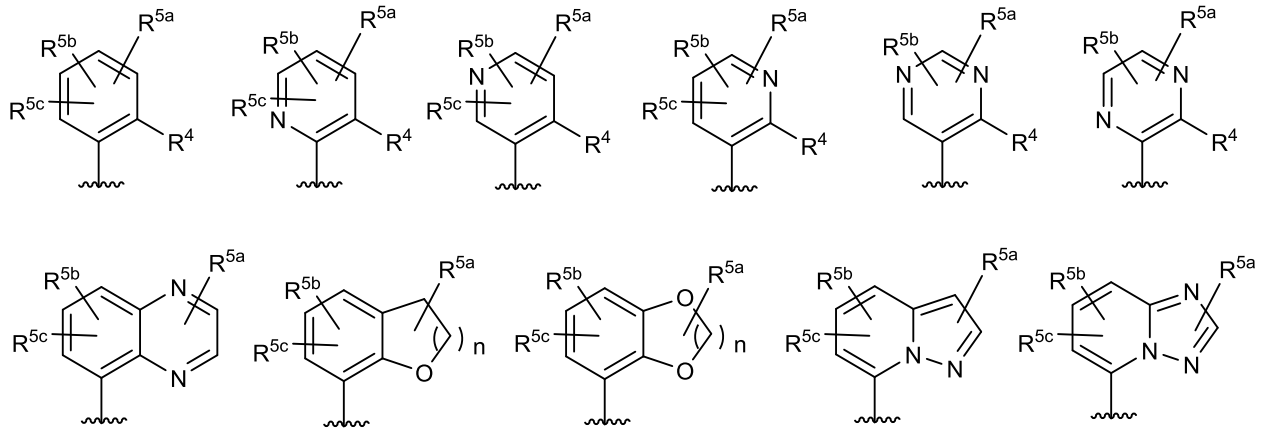
R^{6a} and R^{6b} are each independently a hydrogen atom, a halogen atom, a C_1-C_6 alkyl group, a C_1-C_6 haloalkyl group, a C_3-C_7 cycloalkyl group, a C_1-C_6 alkoxy group, a C_1-C_6 haloalkoxy group, or a C_1-C_6 alkylthio group.

3. The biaryl derivative according to claim 1 or claim 2 or a salt thereof, wherein, in the aforementioned formula (I), X^1 is CH, and X^2 and X^3 are each independently CR^1 or N wherein R^1 is as defined in claim 1.

4. The biaryl derivative according to any one of claims 1 to 3 or a salt thereof, wherein, in the aforementioned formula (I), X^1 and X^3 are CH, X^2 is CR^1 or N, and R^1 is a hydrogen atom or a halogen atom.

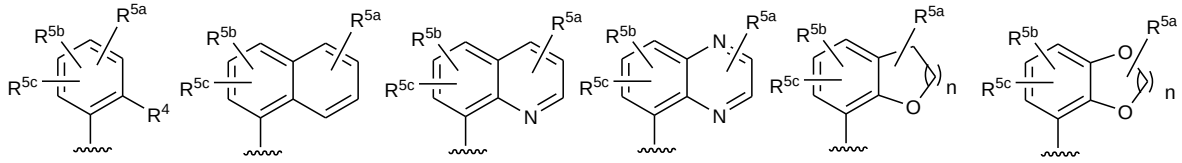
5. The biaryl derivative according to any one of claims 1 to 4 or a salt thereof, wherein, in the aforementioned formula (I), X^1 and X^3 are CH, and X^2 is CH or N.

6. The biaryl derivative according to any one of claims 1 to 5 or a salt thereof, wherein, in the aforementioned formula (I), ring A is a ring selected from the group consisting of the following formulas:



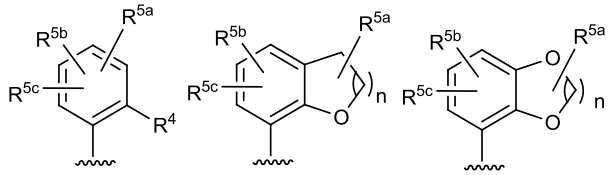
wherein n, R^4, R^{5a}, R^{5b} and R^{5c} are as defined in claim 1.

7. The biaryl derivative according to any one of claims 1 to 5 or a salt thereof, wherein, in the aforementioned formula (I), ring A is a ring selected from the group consisting of the following formulas:



wherein R^4, R^{5a}, R^{5b}, R^{5c} and n are as defined in claim 1.

8. The biaryl derivative according to any one of claims 1 to 5 or a salt thereof, wherein, in the aforementioned formula (I), ring A is a ring selected from the group consisting of the following formulas:



wherein R^4, R^{5a}, R^{5b}, R^{5c} and n are as defined in claim 1.

9. The biaryl derivative according to any one of claims 1 to 8 or a salt thereof, wherein R^4 is a halogen atom, a cyano group, a C_1-C_6 alkyl group, a C_1-C_6 haloalkyl group, a C_3-C_7 cycloalkyl

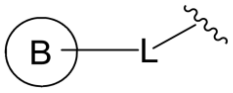
group, a C_1-C_6 alkoxy group, a C_1-C_6 haloalkoxy group, a vinyl group, an ethynyl group or a C_1-C_6 alkylthio group.

10. The biaryl derivative according to any one of claims 1 to 9 or a salt thereof, wherein R^4 is a halogen atom, a C_1-C_4 alkyl group, a C_1-C_4 haloalkyl group, a cyclopropyl group, a C_1-C_4 alkoxy group or a C_1-C_4 haloalkoxy group.

11. The biaryl derivative according to any one of claims 1 to 10 or a salt thereof, wherein, in the aforementioned formula (I),

R^{2a} is a hydrogen atom, a halogen atom, a cyano group, a C_1-C_6 alkyl group, a C_1-C_6 alkyl group substituted by $-OR^g$, where R^g is (a)(i) a C_1-C_6 alkyl group, (a)(ii) a C_1-C_6 haloalkyl group, (a)(iii) a C_1-C_4 alkoxy-C_1-C_4 alkyl group, (a)(iv) a C_2-C_6 alkenyl-C_1-C_6 alkyl group, (a)(v) a C_2-C_6 alkynyl-C_1-C_6 alkyl group, (a)(vi) a cyanomethyl group, (a)(vii) $-CONR^jR^k$, where R^j and R^k are each independently (b)(i) a hydrogen atom or (b)(ii) a C_1-C_6 alkyl group, (a)(viii) a C_3-C_7 cycloalkyl group, or (a)(ix) a C_1-C_6 alkylcarbonyl group, a C_1-C_6 alkyl group substituted by a C_1-C_6 alkoxycarbonyl group, a C_1-C_6 alkyl group substituted by a cyano group, a C_1-C_6 haloalkyl group, a C_1-C_6 haloalkyl group substituted by a heterocycloalkyl group, a C_1-C_6 haloalkyl group substituted by $-NR^hR^i$, where R^h is a C_1-C_6 alkyl group, and R^i is (i) a hydrogen atom, (ii) a C_1-C_6 alkyl group or (iii) a C_1-C_6 alkylcarbonyl group, a C_1-C_6 alkoxy group, a C_1-C_6 alkoxy group substituted by a C_1-C_6 alkoxycarbonyl group, a C_1-C_6 haloalkoxy group, a C_1-C_4 alkoxy-C_1-C_4 alkyl group, a C_1-C_4 alkoxy-C_1-C_4 haloalkyl group, a C_1-C_4 alkoxy-C_1-C_4 haloalkyl group substituted by C_1-C_4 alkoxy, a C_1-C_6 alkylcarbonyl group, a C_1-C_6 alkoxycarbonyl group, a C_1-C_6 alkylcarbonyloxy group, a C_3-C_7 cycloalkyl group, a C_3-C_7 cycloalkyl group substituted by a C_1-C_6 alkyl group, a C_3-C_7 cycloalkyl group substituted by a C_1-C_4 alkoxy-C_1-C_4 alkyl group, a heterocycloalkyl group, heterocycloalkyloxy group, a C_2-C_6

alkenyl group, a C_2-C_6 alkenyloxy group, a C_2-C_6 alkynyl group, a C_2-C_6 alkynyloxy group, a C_2-C_6 alkynyloxy-C_1-C_4 alkyl group, -NR^aR^b, where R^a and R^b are each independently (i) a hydrogen atom, (ii) a C_1-C_6 alkyl group, (iii) a C_1-C_6 alkyl group substituted by a cyano group, (iv) a C_1-C_6 alkyl group substituted by a C_1-C_4 alkoxy group, (v) a C_1-C_6 alkyl group substituted by a C_1-C_6 alkoxycarbonyl group, (vi) a C_1-C_6 alkyl group substituted by a C_3-C_7 cycloalkyl group, or (vii) a C_1-C_6 alkyl group substituted by a C_2-C_6 alkenyl group, provided that R^a and R^b are not hydrogen atoms at the same time, a C_1-C_6 alkylthio group, a C_1-C_6 haloalkylthio group, a pentafluorosulfanyl group, or a group represented by the formula (I-A)



(I-A)

wherein,

L is a single bond, -$(CH_2)_p$-, -O$(CH_2)_p$-, -$(CH_2)_p$O-, -$NR^c(CH_2)_p$- or -$(CH_2)_pNR^c$-, wherein one or more hydrogen atoms of $(CH_2)_p$ are optionally substituted by a halogen atom,

p is 1 or 2,

R^c is a hydrogen atom or a methyl group, and

ring B is phenyl, imidazolyl, pyrazolyl, oxazolyl, thiazolyl, or oxadiazolyl, and

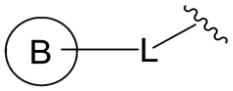
R^{2b} is a hydrogen atom, a halogen atom, a cyano group, a C_1-C_6 alkyl group, a C_1-C_6 haloalkyl group, a C_1-C_6 alkoxy group, a C_1-C_6 haloalkoxy group, or a C_3-C_7 cycloalkyl group, or

when Z is CR^{2b}, R^{2a} and R^{2b} may be joined to form -$(CH_2)_r$-, where r is 3, 4, 5 or 6 optionally substituted by a halogen atom, a hydroxyl group or an oxo group, and

wherein R^{2a} and R^{2b} are not hydrogen atoms at the same time.

12. The biaryl derivative according to any one of claims 1 to 11 or a salt thereof, wherein, in the aforementioned formula (I),

R^{2a} is a hydrogen atom, a halogen atom, a cyano group, a C_1-C_6 alkyl group, a C_1-C_6 haloalkyl group, a C_1-C_6 alkoxy group, a C_1-C_6 haloalkoxy group, a C_1-C_4 alkoxy-C_1-C_4 alkyl group, a C_1-C_4 alkoxy-C_1-C_4 haloalkyl group, a C_1-C_6 alkylcarbonyl group, a C_1-C_6 alkoxycarbonyl group, a C_3-C_7 cycloalkyl group, $-NR^aR^b$, where R^a and R^b are each independently (i) a hydrogen atom, (ii) a C_1-C_6 alkyl group, (iii) a C_1-C_6 alkyl group substituted by a C_1-C_4 alkoxy group, or (iv) a C_1-C_6 alkyl group substituted by a C_1-C_6 alkoxycarbonyl group, provided that R^a and R^b are not hydrogen atoms at the same time or a group represented by the formula (I-A)



(I-A)

wherein,

L is a single bond, $-(CH_2)_p-$, $-O(CH_2)_p-$ or $-(CH_2)_pO-$, wherein one or more hydrogen atoms of $(CH_2)_p$ are optionally substituted by a halogen atom,

p is 1 or 2, and

ring B is phenyl or pyrazolyl, and

R^{2b} is a hydrogen atom, a halogen atom, or a methyl group, or

when Z is CR^{2b}, R^{2a} and R^{2b} may be joined to form $-(CH_2)_r-$, where r is 3 or 4, and wherein

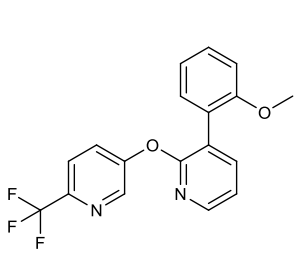
R^{2a} and R^{2b} are not hydrogen atoms at the same time.

13. The biaryl derivative according to any one of claims 1 to 12 or a salt thereof, wherein, in the aforementioned formula (I), when Z is CR^{2b}, R^{2a} and R^{2b} are each independently a hydrogen atom, a C_1-C_4 alkyl group, a C_1-C_4 haloalkyl group, a C_1-C_4 alkoxy group, a C_1-C_4 haloalkoxy group, a C_1-C_4 alkoxy-C_1-C_4 alkyl group, a C_1-C_4 alkoxy-C_1-C_4 haloalkyl group or a C_3-C_7 cycloalkyl group, provided that R^{2a} and R^{2b} are not hydrogen atoms at the same time.

14. The biaryl derivative according to any one of claims 1 to

13 or a salt thereof, wherein, in the aforementioned formula (I), when Z is CR^{2b}, R^{2b} is a hydrogen atom or a C_1-C_4 alkyl group.

15. The biaryl derivative according to claim 1 or a salt thereof, wherein the compound represented by the aforementioned formula (I) is any of: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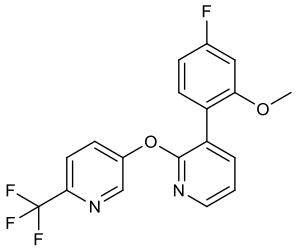
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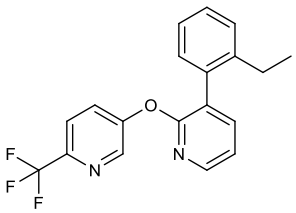
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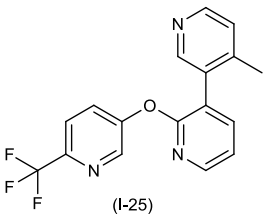
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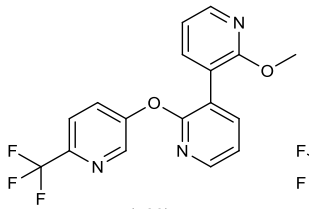
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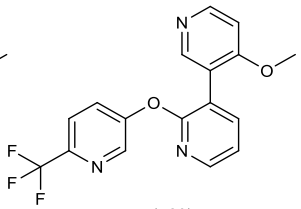
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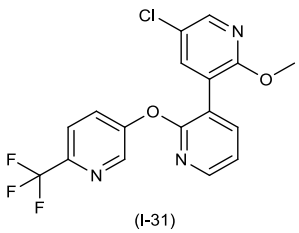
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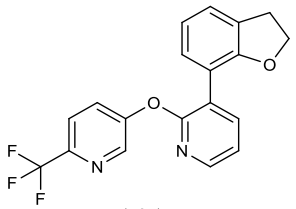
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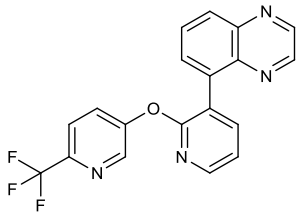
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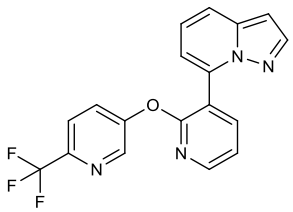
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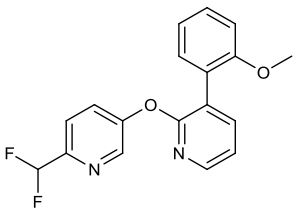
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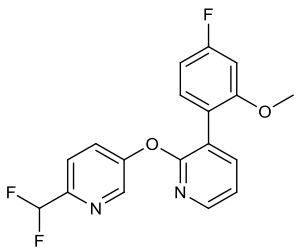
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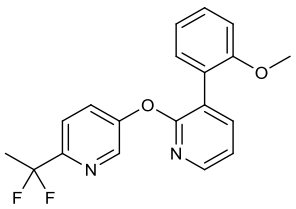
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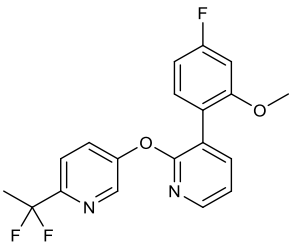
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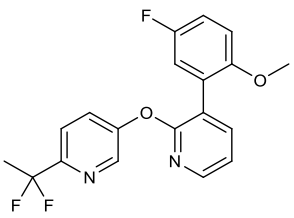
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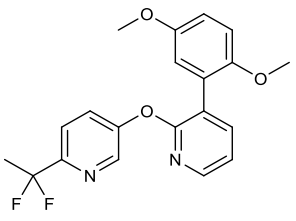
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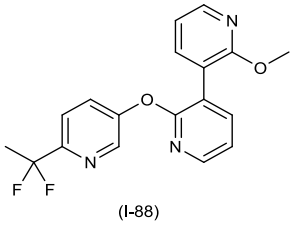
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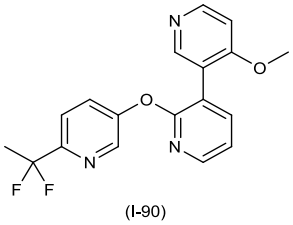
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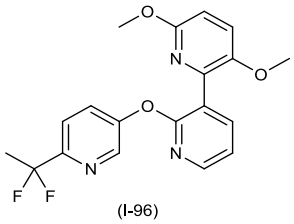
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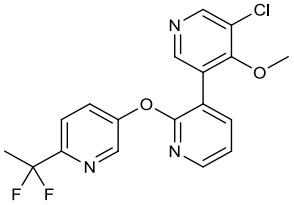
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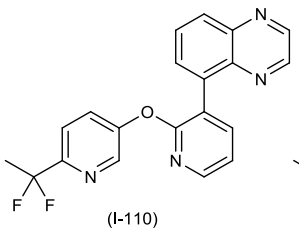

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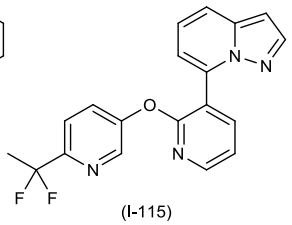

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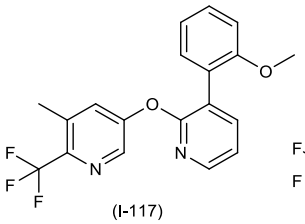

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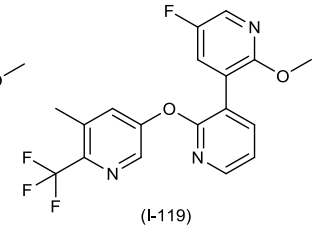

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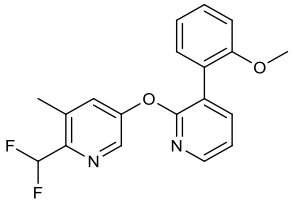

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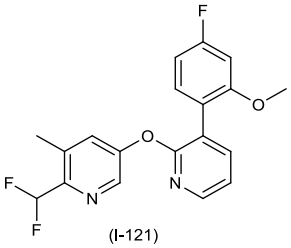

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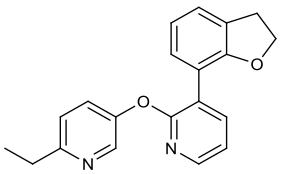

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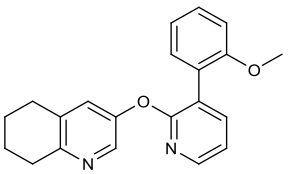

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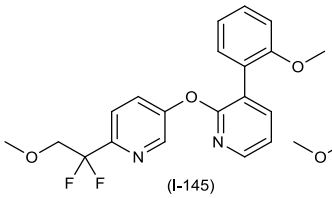

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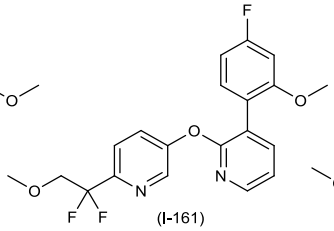

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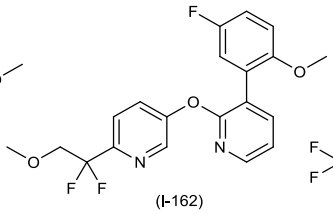

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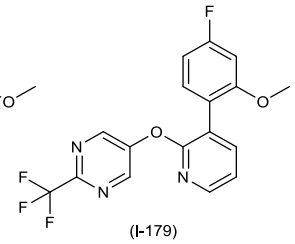

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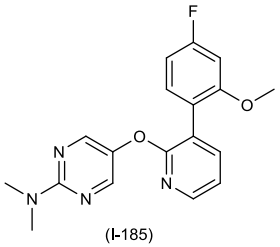

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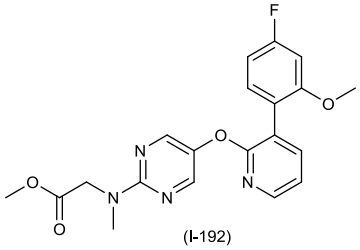

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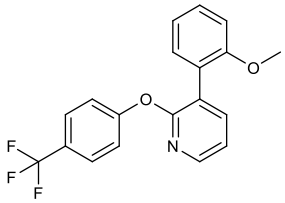

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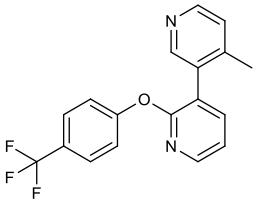

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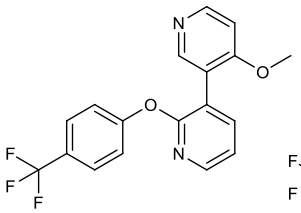

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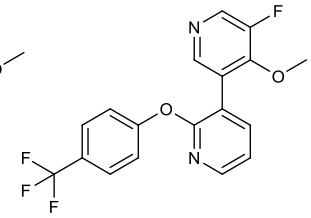

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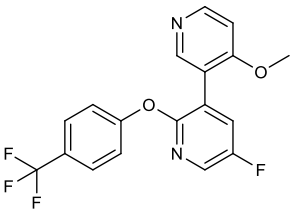

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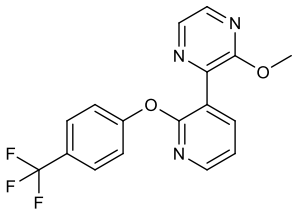

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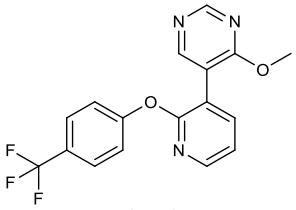

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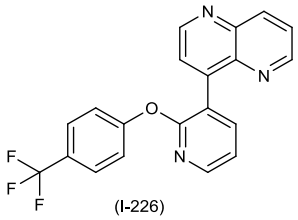

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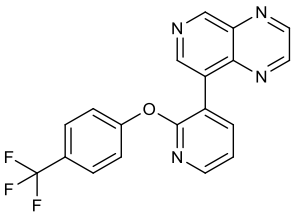

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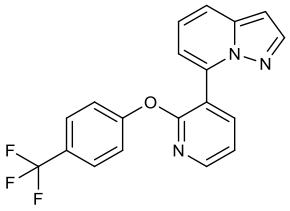

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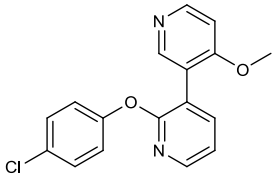

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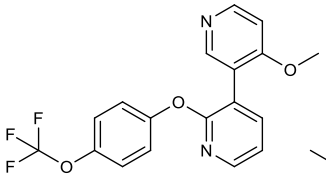

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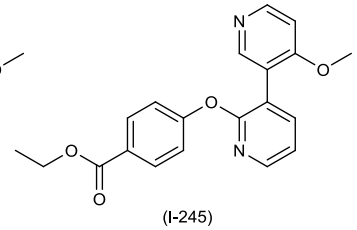

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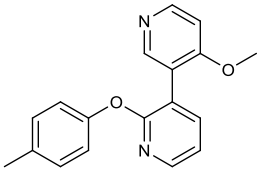

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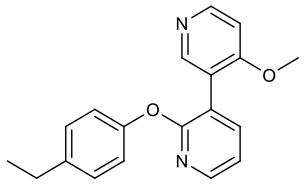

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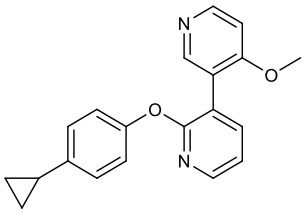

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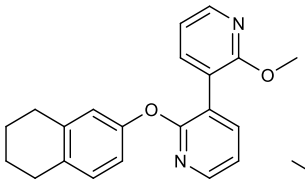

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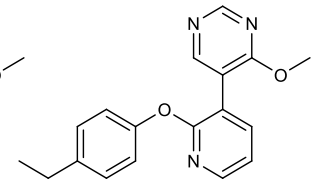

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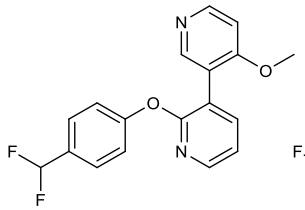

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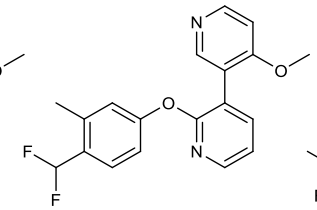

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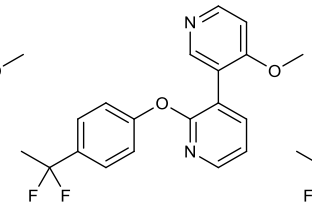

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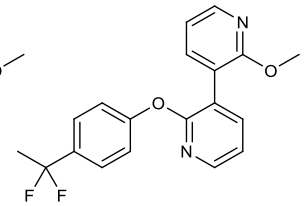

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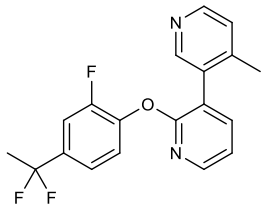
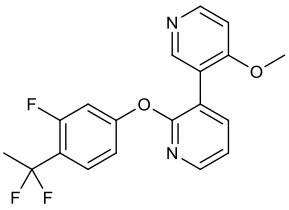
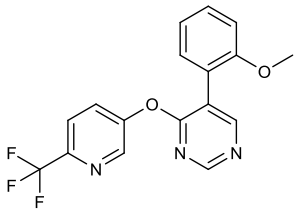


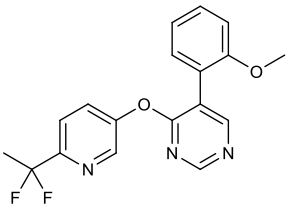
(I-303)



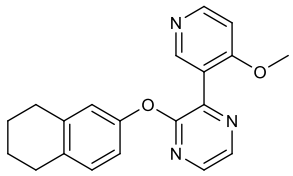
(I-304)



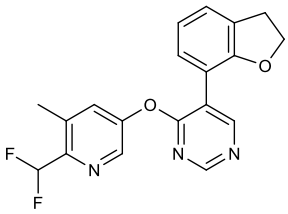
(I-310)



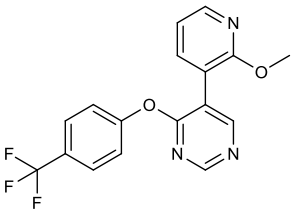
(I-312)



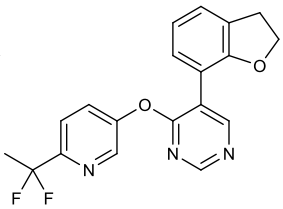
(I-317)



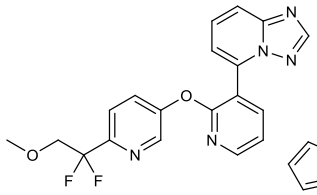
(I-324)



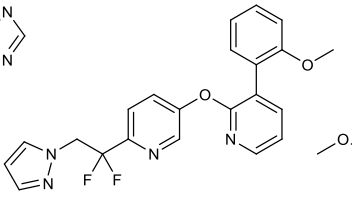
(I-330)



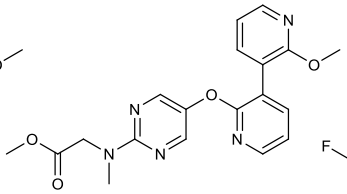
(I-335)



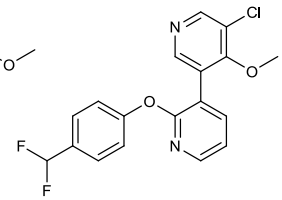
(I-343)



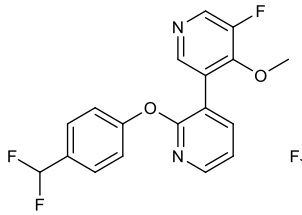
(I-350)



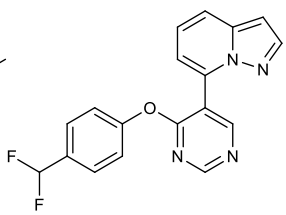
(I-354)



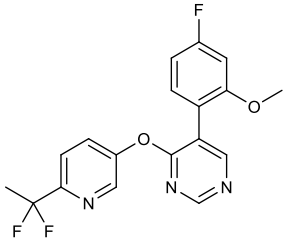
(I-355)



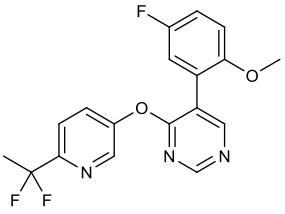
(I-356)



(I-358)



(I-359)



(I-360)

16. A medicament comprising the biaryl derivative according to any one of claims 1 to 15 or a salt thereof.

17. An antifungal agent comprising the biaryl derivative according to any one of claims 1 to 15 or a salt thereof as an active ingredient.

18. A therapeutic agent for superficial mycosis, comprising the biaryl derivative according to any one of claims 1 to 15 or a salt thereof as an active ingredient.

19. A therapeutic agent for tinea unguium, comprising the biaryl derivative according to any one of claims 1 to 15 or a salt thereof as an active ingredient.

20. Use of the biaryl derivative according to any one of claims 1 to 15 or a salt thereof in the manufacture of a medicament for the prophylaxis or treatment of fungal infections, superficial mycosis or tinea unguium.

21. The biaryl derivative according to any one of claims 1 to 15 or a salt thereof for use in the prophylaxis or treatment of fungal infections, superficial mycosis or tinea unguium.