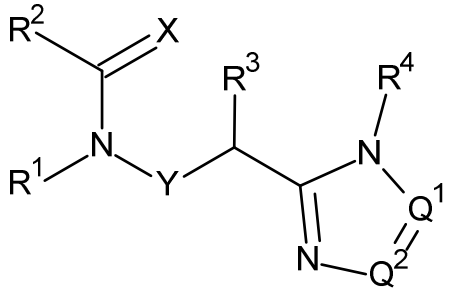
Claims:

1. A compound of formula (I),



(I),

in which

X is O or S;

Q^1 and Q^2 are independently CR^5 or N, provided at least one of Q^1 and Q^2 is N;

Y is a direct bond or CH_2;

R^1 is hydrogen; C_1-C_6alkyl optionally substituted with one substituent selected from -CN, $-CONH_2$, -COOH, $-NO_2$ and $-Si(CH_3)_3$; C_1-C_6haloalkyl; C_2-C_6alkenyl; C_2-C_6haloalkenyl; C_2-C_6alkynyl; C_2-C_6haloalkynyl; C_3-C_4cycloalkyl-C_1-C_2alkyl- wherein the C_3-C_4cycloalkyl is optionally substituted with one or two halogen atoms; oxetan-3-yl-CH_2- or benzyl optionally substituted with halogen atoms or C_1-C_3haloalkyl;

R^2 is phenyl, pyridine, pyrimidine, pyrazine or pyridazine, wherein the phenyl, pyridine, pyrimidine, pyrazine or pyridazine is optionally substituted with one to three substituents, provided the substituent(s) are not on either carbon adjacent to the carbon bonded to the C=X-group, each independently selected from the group consisting of C_1-C_3alkyl, C_1-C_3haloalkyl, C_1-C_3haloalkylthio, C_1-C_3alkoxy, C_1-C_3haloalkoxy, halogen, $-NO_2$, $-SF_5$, -CN, $-CONH_2$, -COOH and $-C(S)NH_2$;

R^3 is C_1-C_3alkyl or C_1-C_3haloalkyl;

R^4 is pyridine, pyrimidine, pyrazine or pyridazine, wherein the pyridine, pyrimidine, pyrazine or pyridazine is substituted with two to three substituents independently selected from the group consisting of

halogen, hydroxy, -CN, -COOH, -$CONH_2$, -$CSNH_2$, -NO_2, -NH_2, C_1-C_6alkyl, optionally substituted C_3-C_6cycloalkyl, C_1-C_3haloalkyl, C_1-C_4alkoxy, C_1-C_3haloalkoxy, C_1-C_6alkylthio, C_1-C_6alkylsulfinyl, C_1-C_6alkylsulfonyl, C_3-C_6cycloalkylsulfanyl, C_3-C_6cycloalkylsulfinyl, C_3-C_6cycloalkylsulfonyl, C_1-C_3haloalkylthio, C_1-C_3haloalkylsulfinyl, C_1-C_3haloalkylsulfonyl, -NH(C_1-C_4alkyl), -N(C_1-C_4alkyl)$_2$, -NHCO-C_1-C_4alkyl, -N(C_1-C_4alkyl)CO-C_1-C_4alkyl, -CO_2C_1-C_4alkyl, -CONH(C_1-C_4alkyl), -CON(C_1-C_4alkyl)$_2$, -C(=NOC_1-C_4alkyl)H, -C(=NOC_1-C_4alkyl)-C_1-C_4alkyl;

and phenyl and 5- to 6-membered heteroaryl, wherein the phenyl or 5- to 6-membered heteroaryl is optionally substituted with one to two substituents, each independently selected from the group consisting of halogen, -CN, C_1-C_6alkyl, C_1-C_3haloalkyl and C_1-C_4alkoxy;

or

R^4 is pyridine, pyrimidine, pyrazine or pyridazine, wherein the pyridine, pyrimidine, pyrazine or pyridazine is substituted with a total of one to three substiuent(s), provided at least one and up to three substituent(s) are independently selected from group A consisting of

-CN, -COOH, -$CONH_2$, -$CSNH_2$, -NO_2, -NH_2, C_5-C_6cycloalkyl, substituted C_3-C_4cycloalkyl, C_1-C_4haloalkoxy, C_1-C_6alkylthio, C_1-C_6alkylsulfinyl, C_1-C_6alkylsulfonyl, C_3-C_6cycloalkylsulfanyl, C_3-C_6cycloalkylsulfinyl, C_3-C_6cycloalkylsulfonyl, C_1-C_3haloalkylthio, C_1-C_3haloalkylsulfinyl, C_1-C_3haloalkylsulfonyl, -NH(C_1-C_4alkyl), -N(C_1-C_4alkyl)$_2$, -NHCO-C_1-C_4alkyl, -NHCO-C_1-C_4haloalkyl, -NHCO-C_1-C_4cyanoalkyl, -NHCO-C_3-C_6cycloalkyl, wherein the cycloalkyl is optionally substituted with one to three substituents selected from the group consisting of cyano, halogen, C_1-C_3alkyl and C_2-C_4haloalkenyl; -NHCO-C_1-C_4alkyl-C_3-C_6cycloalkyl, -NHCO-phenyl, wherein the phenyl is optionally substituted with one to two substituents selected from the group consisting of halogen, CN, C_1-C_6alkyl and C_1-C_3haloalkyl; -N(SO_2C_1-C_3alkyl)$_2$, -NH(SO_2C_1-C_3alkyl), -N(C_1-C_4alkyl)CO-C_1-C_4alkyl, -$NHSO_2C_1$-C_4haloalkyl, -NHCS-C_1-C_4alkyl, -NHCS-C_3-C_5cycloalkyl, -NHCS-C_1-C_4alkyl-C_3-C_5cycloalkyl, -CO_2C_1-C_4alkyl, -CONH(C_1-C_5alkyl), wherein the alkyl is optionally substituted with one to three substituents selected from the group consisting of cyano and halogen; -CON(C_1-C_4alkyl)$_2$, -CONH-C_3-C_5cycloalkyl, wherein the cycloalkyl is optionally substituted with one to three substituents

selected from the group consisting of cyano and halogen; -CON(C_1-C_5alkyl)(C_3-C_5cycloalkyl), CONH-phenyl, wherein the phenyl is optionally substituted with one to three substituents selected from the group consisting of cyano and halogen; -CONHSO$_2$-C_1-C_4alkyl, -C(=NOC_1-C_4alkyl)H, -C(=NOC_1-C_4alkyl)-C_1-C_4alkyl;

and phenyl and 5- to 6-membered heteroaryl, wherein the phenyl or 5- to 6-membered heteroaryl is optionally substituted with one to two substituents, each independently selected from the group consisting of halogen, -CN, C_1-C_6alkyl, C_1-C_3haloalkyl and C_1-C_4alkoxy;

the other one to two optional substituent(s) are each independently selected from group B consisting of

halogen, hydroxy, -CN, -COOH, -CONH$_2$, -NO$_2$, -NH$_2$, C_1-C_6alkyl, C_3-C_6cycloalkyl, C_1-C_3haloalkyl, C_1-C_4alkoxy, C_1-C_3haloalkoxy, C_1-C_6alkylthio, C_1-C_6alkylsulfinyl, C_1-C_6alkylsulfonyl, C_3-C_6cycloalkylsulfanyl, C_3-C_6cycloalkylsulfinyl, C_3-C_6cycloalkylsulfonyl, C_1-C_3haloalkylthio, C_1-C_3haloalkylsulfinyl, C_1-C_3haloalkylsulfonyl, -NH(C_1-C_4alkyl), -N(C_1-C_4alkyl)$_2$, -NHCO-C_1-C_4alkyl, -N(C_1-C_4alkyl)CO-C_1-C_4alkyl, -CO$_2$$C_1$-$C_4$alkyl, -CONH($C_1$-$C_4$alkyl), -CON($C_1$-$C_4$alkyl)$_2$, -C(=NO$C_1$-$C_4$alkyl)H, -C(=NO$C_1$-$C_4$alkyl)-$C_1$-$C_4$alkyl;

and phenyl and 5- to 6-membered heteroaryl, wherein the phenyl or 5- to 6-membered heteroaryl is optionally substituted with one to two substituents, each independently selected from the group consisting of halogen, -CN, C_1-C_6alkyl, C_1-C_3haloalkyl and C_1-C_4alkoxy;

or

R^4 is a 5-membered heteroaryl optionally substituted with one to three substituents independently selected from the group consisting of

halogen, hydroxy, -CN, -COOH, -CONH$_2$, -CSNH$_2$, -NO$_2$, -NH$_2$, C_1-C_6alkyl, C_3-C_6cycloalkyl, C_1-C_3haloalkyl, C_1-C_4alkoxy, C_1-C_3haloalkoxy, C_1-C_6alkylthio, C_1-C_6alkylsulfinyl, C_1-C_6alkylsulfonyl, C_3-C_6cycloalkylsulfanyl, C_3-C_6cycloalkylsulfinyl, C_3-C_6cycloalkylsulfonyl, C_1-C_3haloalkylthio, C_1-C_3haloalkylsulfinyl, C_1-C_3haloalkylsulfonyl, -NH(C_1-C_4alkyl), -N(C_1-C_4alkyl)$_2$, -NHCO-C_1-C_4alkyl, -N(C_1-C_4alkyl)CO-C_1-C_4alkyl, -CO$_2$$C_1$-$C_4$alkyl, -

$CONH(C_1\text{-}C_4alkyl)$, $-CON(C_1\text{-}C_4alkyl)_2$, $-C(=NOC_1\text{-}C_4alkyl)H$, $-C(=NOC_1\text{-}C_4alkyl)\text{-}C_1\text{-}C_4alkyl$;

and phenyl and 5- to 6-membered heteroaryl, wherein the phenyl or 5- to 6-membered heteroaryl is optionally substituted with one to two substituents, each independently selected from the group consisting of halogen, -CN, $C_1\text{-}C_6alkyl$, $C_1\text{-}C_3haloalkyl$ and $C_1\text{-}C_4alkoxy$;

or

R^4 is a heterocyclic ring which is selected from the group consisting of 4- to 10-membered saturated or partially unsaturated heterocyclyl, 9-membered heteroaryl and 10-membered heteroaryl, each of which is optionally substituted by one to three substituents independently selected from the group consisting of

halogen, =O (oxo), hydroxy, -CN, -COOH, $-CONH_2$, $-CSNH_2$, $-NO_2$, $-SF_5$, $-NH_2$, $C_1\text{-}C_6alkyl$, $C_3\text{-}C_6cycloalkyl$, $C_3\text{-}C_6cycloalkyl\text{-}C_1\text{-}C_6alkyl$, $C_1\text{-}C_3haloalkyl$, $C_1\text{-}C_4alkoxy$, $C_1\text{-}C_3haloalkoxy$, $C_1\text{-}C_6alkylthio$, $C_1\text{-}C_6alkylsulfinyl$, $C_1\text{-}C_6alkylsulfonyl$, $C_3\text{-}C_6cycloalkylsulfanyl$, $C_3\text{-}C_6cycloalkylsulfinyl$, $C_3\text{-}C_6cycloalkylsulfonyl$, $C_1\text{-}C_3haloalkylthio$, $C_1\text{-}C_3haloalkylsulfinyl$, $C_1\text{-}C_3haloalkylsulfonyl$, $-NH(C_1\text{-}C_4alkyl)$, $-N(C_1\text{-}C_4alkyl)_2$, $-NHCO\text{-}C_1\text{-}C_4alkyl$, $-N(C_1\text{-}C_4alkyl)CO\text{-}C_1\text{-}C_4alkyl$, $-CO_2C_1\text{-}C_4alkyl$, $-CONH(C_1\text{-}C_4alkyl)$, $-CON(C_1\text{-}C_4alkyl)_2$, $-C(=NOC_1\text{-}C_4alkyl)H$, $-C(=NOC_1\text{-}C_4alkyl)\text{-}C_1\text{-}C_4alkyl$;

and phenyl and 5- to 6-membered heteroaryl, wherein the phenyl or 5- to 6-membered heteroaryl is optionally substituted with one to two substituents, each independently selected from the group consisting of halogen, -CN, $C_1\text{-}C_6alkyl$, $C_1\text{-}C_3haloalkyl$ and $C_1\text{-}C_4alkoxy$;

R^5 is hydrogen, halogen, -CN, $C_1\text{-}C_3alkyl$, $C_1\text{-}C_3haloalkyl$, $C_3\text{-}C_4cycloalkyl$, $C_1\text{-}C_3alkoxy$, $C_1\text{-}C_3haloalkoxy$, $-C(O)C_1\text{-}C_3alkoxyC$, $-CH(C_1\text{-}C_3alkoxy)_2$, $-CO_2C_1\text{-}C_4alkyl$, $-CONH(C_1\text{-}C_4alkyl)$, $-CON(C_1\text{-}C_4alkyl)_2$, $-NHCO\text{-}C_1\text{-}C_4alkyl$, $-N(C_1\text{-}C_4alkyl)CO\text{-}C_1\text{-}C_4alkyl$, $-C(=NOC_1\text{-}C_4alkyl)H$, or $-C(=NOC_1\text{-}C_4alkyl)\text{-}C_1\text{-}C_4alkyl$.

2. The compound according to Claim 1, in which

X is O or S;

Q^1 and Q^2 are independently CR^5 or N, provided at least one of Q^1 and Q^2 is N;

Y is a direct bond or CH_2;

R^1 is hydrogen; C_1-C_3alkyl optionally substituted with one substituent selected from -CN, -$CONH_2$, -COOH, -NO_2 and -$Si(CH_3)_3$; C_1-C_3haloalkyl; C_2-C_4alkenyl; C_2-C_4haloalkenyl; C_2-C_4alkynyl; C_2-C_4haloalkynyl; C_3-C_4cycloalkyl-C_1-C_2alkyl- wherein the C_3-C_4cycloalkyl is optionally substituted with one or two halogen atoms; oxetan-3-yl-CH_2-; or benzyl optionally substituted with halogen atoms or C_1-C_3haloalkyl;

R^2 is phenyl, pyridine, pyrimidine, pyrazine or pyridazine, wherein the phenyl, pyridine, pyrimidine, pyrazine or pyridazine is optionally substituted with one to three substituents, provided the substituent(s) are not on either carbon adjacent to the carbon bonded to the C=X-group, each independently selected from the group consisting of C_1-C_3alkyl, C_1-C_3haloalkyl, C_1-C_3haloalkylthio, C_1-C_3alkoxy, C_1-C_3haloalkoxy, halogen, -NO_2, -SF_5, -CN, -$CONH_2$, -COOH and -$C(S)NH_2$;

R^3 is C_1-C_3alkyl or C_1-C_3haloalkyl;

R^4 is pyridine, pyrimidine, pyrazine or pyridazine, wherein the pyridine, pyrimidine, pyrazine or pyridazine is substituted with two to three substituents independently selected from the group consisting of

halogen, -CN, C_1-C_6alkyl, C_3-C_6cycloalkyl, C_1-C_3haloalkyl, C_1-C_4alkoxy, C_1-C_3haloalkoxy, C_1-C_3alkylthio, C_1-C_3alkylsulfinyl, C_1-C_3alkylsulfonyl, C_1-C_3haloalkylthio, C_1-C_3haloalkylsulfinyl, C_1-C_3haloalkylsulfonyl, -NHCO-C_1-C_4alkyl, -$CONH(C_1$-C_4alkyl), -$CON(C_1$-C_4alkyl)$_2$, -$C(=NOC_1$-C_4alkyl)H, -$C(=NOC_1$-C_4alkyl)-C_1-C_4alkyl;

and phenyl and 5- to 6-membered heteroaryl, wherein the phenyl or 5- to 6-membered heteroaryl is optionally substituted with one to two substituents, each independently selected from the group consisting of halogen, -CN, C_1-C_6alkyl and C_1-C_3haloalkyl;

or

R^4 is pyridine, pyrimidine, pyrazine or pyridazine, wherein the pyridine, pyrimidine, pyrazine or pyridazine is substituted with a total of one to three substiuent(s), provided at least one and up to three substituent(s) are independently selected from group A consisting of

$-CONH_2$, -CN, $-NO_2$, $-NH_2$, C_5-C_6cycloalkyl, substituted C_3-C_4cycloalkyl, C_1-C_4haloalkoxy, C_1-C_3alkylthio, C_1-C_3alkylsulfinyl, C_1-C_3alkylsulfonyl, C_1-C_3haloalkylthio, C_1-C_3haloalkylsulfinyl, C_1-C_3haloalkylsulfonyl, -NHCO-C_1-C_4alkyl, -NHCO-C_1-C_4haloalkyl, -NHCO-C_1-C_4cyanoalkyl, -NHCO-C_3-C_6cycloalkyl, wherein the cycloalkyl is optionally substituted with one to three substituents selected from the group consisting of cyano, halogen, C_1-C_3alkyl and C_2-C_4haloalkenyl; -NHCO-C_1-C_3alkyl-C_3-C_4cycloalkyl, -NHCO-phenyl, wherein the phenyl is optionally substituted with one to two substituents selected from the group consisting of fluorine and chlorine; -N(SO_2C_1-C_3alkyl)$_2$, -NH(SO_2C_1-C_3alkyl), -NHSO_2C_1-C_4haloalkyl, -NHCS-C_1-C_4alkyl, -NHCS-C_3-C_5cycloalkyl, -NHCS-C_1-C_4alkyl-C_3-C_5cycloalkyl, -CO_2C_1-C_4alkyl, -CONH(C_1-C_5alkyl), wherein the alkyl is optionally substituted with one to three substituents selected from the group consisting of cyano and halogen; -CON(C_1-C_4alkyl)$_2$, -CONH-C_3-C_5cycloalkyl, wherein the cycloalkyl is optionally substituted with one to three substituents selected from the group consisting of cyano and halogen; -CON(C_1-C_5alkyl)(C_3-C_5cycloalkyl), CONH-phenyl, wherein the phenyl is optionally substituted with one to three substituents selected from the group consisting of cyano and halogen; -$CONHSO_2$-C_1-C_4alkyl -C(=NOC_1-C_4alkyl)H, -C(=NOC_1-C_4alkyl)-C_1-C_4alkyl;

and phenyl and 5- to 6-membered heteroaryl, wherein the phenyl or 5- to 6-membered heteroaryl is optionally substituted with one to two substituents, each independently selected from the group consisting of halogen, -CN, C_1-C_6alkyl and C_1-C_3haloalkyl;

the other one to two optional substituent(s) are each independently selected from group B consisting of

halogen, -CN, C_1-C_6alkyl, C_3-C_6cycloalkyl, C_1-C_3haloalkyl, C_1-C_4alkoxy, C_1-C_3haloalkoxy, C_1-C_3alkylthio, C_1-C_3alkylsulfinyl, C_1-C_3alkylsulfonyl, C_1-C_3haloalkylthio, C_1-C_3haloalkylsulfinyl, C_1-C_3haloalkylsulfonyl, -NHCO-C_1-C_4alkyl, -CONH(C_1-C_4alkyl), -CON(C_1-C_4alkyl)$_2$, -C(=NOC_1-C_4alkyl)H, -C(=NOC_1-C_4alkyl)-C_1-C_4alkyl;

and phenyl and 5- to 6-membered heteroaryl, wherein the phenyl or 5- to 6-membered heteroaryl is optionally substituted with one to two substituents, each independently selected from the group consisting of halogen, -CN, C_1-C_6alkyl and C_1-C_3haloalkyl;

or

R^4 is a 5-membered heteroaryl optionally substituted with one to three substituents independently selected from the group consisting of

halogen, -CN, C_1-C_6alkyl, C_3-C_6cycloalkyl, C_1-C_3haloalkyl, C_1-C_4alkoxy, C_1-C_3haloalkoxy, C_1-C_3alkylthio, C_1-C_3alkylsulfinyl, C_1-C_3alkylsulfonyl, C_1-C_3haloalkylthio, C_1-C_3haloalkylsulfinyl, C_1-C_3haloalkylsulfonyl, -NHCO-C_1-C_4alkyl, -CONH(C_1-C_4alkyl), -CON(C_1-C_4alkyl)$_2$, -C(=NOC_1-C_4alkyl)H, -C(=NOC_1-C_4alkyl)-C_1-C_4alkyl;

and phenyl and 5- to 6-membered heteroaryl, wherein the phenyl or 5- to 6-membered heteroaryl is optionally substituted with one to two substituents, each independently selected from the group consisting of halogen, -CN, C_1-C_6alkyl and C_1-C_3haloalkyl

or

R^4 is a heterocyclic ring which is selected from the group consisting of 4- to 10-membered saturated or partially unsaturated heterocyclyl, 9-membered heteroaryl and 10-membered heteroaryl, each of which is optionally substituted by one to three substituents independently selected from the group consisting of

halogen, =O (oxo), -CN, C_1-C_6alkyl, C_3-C_6cycloalkyl, C_1-C_3haloalkyl, C_1-C_3alkoxy, C_1-C_3haloalkoxy, C_1-C_3alkylthio, C_1-C_3alkylsulfinyl, C_1-C_3alkylsulfonyl, C_3-C_4cycloalkylsulfanyl, C_3-C_4cycloalkylsulfinyl, C_3-C_4cycloalkylsulfonyl, C_1-C_3haloalkylthio, C_1-C_3haloalkylsulfinyl, C_1-C_3haloalkylsulfonyl, -NHCO-C_1-C_4alkyl, -N(C_1-C_4alkyl)CO-C_1-C_4alkyl, -CONH(C_1-C_4alkyl), -CON(C_1-C_4alkyl)$_2$, -C(=NOC_1-C_4alkyl)H, -C(=NOC_1-C_4alkyl)-C_1-C_4alkyl;

and phenyl and 5- to 6-membered heteroaryl, wherein the phenyl or 5- to 6-membered heteroaryl is optionally substituted with one to two substituents, each independently selected from the group consisting of halogen, -CN, C_1-C_6alkyl and C_1-C_3haloalkyl;

R^5 is hydrogen, halogen, -CN, C_1-C_3alkyl, C_1-C_3haloalkyl, C_3-C_4cycloalkyl, or C_1-C_3alkoxy.

3. The compound according to claim 1, in which

X is O or S;

Q^1 and Q^2 are independently CR^5 or N, provided at least one of Q^1 and Q^2 is N;

Y is a direct bond or CH_2;

R^1 is hydrogen; C_1-C_3alkyl optionally substituted with -CN, -$Si(CH_3)_3$ or one to three substituents selected from the group consisting of fluorine, chlorine or bromine; C_2-C_4alkenyl; C_2-C_4alkynyl; or C_3-C_4cycloalkyl-C_1-C_2alkyl- wherein the C_3-C_4cycloalkyl is optionally substituted with one to two substituents selected from the group consisting of fluorine, chlorine and bromine;

R^2 is phenyl or pyridine, wherein the phenyl or pyridine is optionally substituted with one to three substituents, provided the substituent(s) are not on either carbon adjacent to the carbon bonded to the C=X group, each independently selected from the group consisting of fluorine, chlorine, bromine, -CN, -NO_2, -SF_5, methyl, difluoromethyl, trifluoromethyl, heptafluoropropyl, methoxy, trifluoromethoxy, difluoromethoxy, difluoromethylthio, and trifluoromethylthio;

R^3 is C_1-C_3alkyl;

R^4 is pyridine, pyrimidine, pyrazine or pyridazine, wherein the pyridine, pyrimidine, pyrazine or pyridazine is substituted with two to three substituents independently selected from the group consisting of

fluorine, chlorine, bromine, iodine, -CN, methyl, cyclopropyl, difluoromethyl, trifluoromethyl, methoxy, trifluoromethoxy, difluoromethoxy, methylthio, methylsulfinyl, methylsulfonyl, difluoromethylthio, difluoromethylsulfinyl, difluoromethylsulfonyl, trifluoromethylthio, trifluoromethylsulfinyl, trifluoromethylsulfonyl and phenyl, wherein the phenyl is optionally substituted with one to two substituents selected from the group consisting of fluorine, chlorine, bromine, -CN, difluoromethyl and trifluoromethyl;

or

R^4 is pyridine, pyrimidine, pyrazine or pyridazine, wherein the pyridine, pyrimidine, pyrazine or pyridazine is substituted with a total of one to three substiuent(s), provided at least one and up to three substituent(s) are independently selected from group A consisting of

$-CONH_2$, -CN, $-NO_2$, $-NH_2$, cyclopentyl, cyclohexyl, trifluoromethoxy, difluoromethoxy, 2,2,2-trifluoroethoxy, 2,2,3,3,3-pentafluoropropoxy, 4,4,4-trifluorobutoxy, methylthio, methylsulfinyl, methylsulfonyl, difluoromethylthio, difluoromethylsulfinyl, difluoromethylsulfonyl, trifluoromethylthio, trifluoromethylsulfinyl, trifluoromethylsulfonyl, methoxyiminomethyl, -NHCO-C_1-C_3alkyl, -NHCO-C_1-C_3haloalkyl, -NHCO-C_1-C_3cyanoalkyl, -NHCO-C_3-C_5cycloalkyl, wherein the cycloalkyl is optionally substituted with one to three substituents selected from the group consisting of cyano, fluorine, chlorine, methyl and C_2-C_4haloalkenyl; -NHCO-C_1-C_3alkyl-C_3-C_4cycloalkyl, -NHCO-phenyl, wherein the phenyl is optionally substituted with one to two substituents selected from the group consisting of fluorine and chlorine; -N(SO_2C_1-C_3alkyl)$_2$, -NHSO_2C_1-C_3alkyl, -NHSO_2C_1-C_3haloalkyl, -NHCS-C_1-C_3alkyl, -NHCS-C_3-C_4cycloalkyl, -NHCS-C_1-C_3alkyl- C_3-C_4cycloalkyl, -CONH(C_1-C_5alkyl), wherein the alkyl is optionally substituted with one to three substituents selected from the group consisting of cyano, fluorine and chlorine; -CON(C_1-C_3alkyl)$_2$, -CONH-C_3-C_4cycloalkyl, wherein the cycloalkyl is optionally substituted with one to three substituents selected from the group consisting of cyano, fluorine and chlorine; -CON(C_1-C_3alkyl)(C_3-C_4cycloalkyl), -CONH-phenyl, wherein the phenyl is optionally substituted with one to three substituents selected from the group consisting of cyano, fluorine and chlorine; -CONHSO_2-C_1-C_3alkyl, -CO_2C_1-C_4alkyl;

and phenyl and 5-membered heteroaryl, wherein the phenyl or 5-membered heteroaryl is optionally substituted with one to two substituents selected from the group consisting of fluorine, chlorine, bromine, -CN, difluoromethyl and trifluoromethyl;

the other one to two optional substituents are each independently selected from group B consisting of

fluorine, chlorine, bromine, iodine, -CN, methyl, cyclopropyl, difluoromethyl, trifluoromethyl, methoxy, trifluoromethoxy, difluoromethoxy, methylthio, methylsulfinyl, methylsulfonyl, difluoromethylthio, difluoromethylsulfinyl, difluoromethylsulfonyl, trifluoromethylthio, trifluoromethylsulfinyl, trifluoromethylsulfonyl and phenyl, wherein the phenyl is optionally substituted with one to two substituents selected from the group consisting of fluorine, chlorine, bromine, -CN, difluoromethyl and trifluoromethyl;

or

R^4 is a 5-membered heteroaryl optionally substituted with one to three substituents independently selected from the group consisting of

fluorine, chlorine, bromine, iodine, -CN, methyl, cyclopropyl, difluoromethyl, trifluoromethyl, methoxy, trifluoromethoxy, difluoromethoxy, methylthio, methylsulfinyl, methylsulfonyl, difluoromethylthio, difluoromethylsulfinyl, difluoromethylsulfonyl, trifluoromethylthio, trifluoromethylsulfinyl, trifluoromethylsulfonyl and phenyl, wherein the phenyl is optionally substituted with one to two substituents selected from the group consisting of fluorine, chlorine, bromine, -CN, difluoromethyl and trifluoromethyl;

or

R^4 is a heterocyclic ring which is selected from the group consisting of 5-membered saturated or partially unsaturated heterocyclyl, 9-membered heteroaryl and 10-membered heteroaryl, each of which is optionally substituted by one to three substituents independently selected from the group consisting of

fluorine, chlorine, bromine, iodine, =O (oxo), -CN, methyl, cyclopropyl, difluoromethyl, trifluoromethyl, methoxy, trifluoromethoxy, difluoromethoxy, methylthio, methylsulfinyl, methylsulfonyl, difluoromethylthio, difluoromethylsulfinyl, difluoromethylsulfonyl, trifluoromethylthio, trifluoromethylsulfinyl, trifluoromethylsulfonyl and phenyl, wherein the phenyl is optionally substituted with one to two substituents selected from the group consisting of fluorine, chlorine, bromine, -CN, difluoromethyl and trifluoromethyl;

R^5 is hydrogen, fluorine, chlorine, bromine, -CN, methyl, ethyl, propyl, iso-propyl, difluoromethyl, trifluoromethyl, cyclopropyl, methoxy, or ethoxy.

4. The compound according to claim 1, in which

X is O or S;

Q^1 is N;

Q^2 is CR^5;

Y is a direct bond;

R^1 is hydrogen, ethyl, cyclopropyl-CH_2-, 2-trimethylsilylethyl or 2,2,2-trifluoroethyl;

R^2 3-chloro-5-(trifluoromethyl)phenyl, 3-cyano-5-fluorophenyl, 3-fluoro-5-(trifluoromethyl)phenyl, 3,4,5-trifluorophenyl, 4-chloro-3,5-difluorophenyl, 3-methyl-5-(trifluoromethyl)phenyl, 3-chloro-5-(trifluoromethoxy)phenyl, 3-chloro-5-(trifluoromethylthio)phenyl, 3-bromo-5-chlorophenyl, 3,5-dichlorophenyl, 3-chloro-5-(pentafluoro-λ6-sulfanyl)phenyl, 3,5-bis(trifluoromethyl)phenyl, 5-bromopyridin-3-yl, 5-iodopyridin-3-yl, 5-(trifluoromethyl)pyridin-3-yl, 3-chloro-5-methoxyphenyl, 3-bromo-5-(trifluoromethyl)phenyl, 3-methoxy-5-(trifluoromethyl)phenyl, 3-chloro-5-(difluoromethoxy)phenyl, 3-bromo-5-cyanophenyl, 3-cyano-5-(triflurоromethyl), 3-bromo-5-fluorophenyl, 3-fluoro-5-(trifluoromethylthio)phenyl, 3-chloro-5-nitrophenyl, 5,6-bis(trifluoromethyl)pyridin-3-yl, 5-chloropyridin-3-yl, 3-((1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethylphenyl, 6-chloro-4-(trifluoromethyl)pyridin-2-yl, or 3-chlorophenyl;

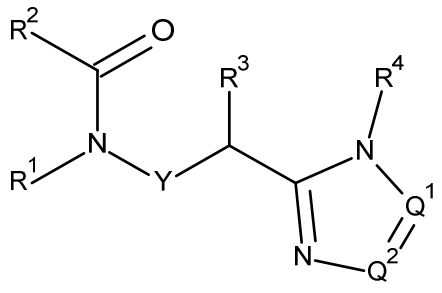
R^3 is methyl or ethyl;

R^4 is 4,6-dimethylpyrimidin-2-yl, 4-methoxy-6-methylpyrimidin-2-yl, 1,3-thiazol-2-yl, quinoxalin-2-yl, [1,2,4]triazolo[1,5-a]pyridin-2-yl, 1-methyl-1H-pyrazol-3-yl, 5-cyanopyridin-2-yl, 5-cyanopyrimidin-2-yl, 5-(trifluoromethoxy)pyrimidin-2-yl, 5-(difluoromethoxy)pyrimidin-2-yl, 5-chloro-3-fluoropyridin-2-yl, 3,5-difluoropyridin-2-yl, 4-cyanopyridin-2-yl, 5-(trifluoromethoxy)pyridin-2-yl, 5-(trifluoromethyl)-1,3,4-thiadiazol-2-yl, 5-chloro-4-(difluoromethyl)-1,3-thiazol-2-yl, 5-(4-fluorophenyl)-1,3,4-thiadiazol-2-yl, 1,1-dioxothiolan-3-yl, 5-(trifluoromethylthio)pyridin-2-yl, 5-(trifluoromethylsulfonyl)pyridin-2-yl, 5-nitropyridin-2-yl, 5-(difluoromethoxy)pyridin-2-yl, 5-aminopyridin-2-yl, 5-(methoxycarbonyl)pyridin-2-yl, 3-(difluoromethyl)-1-methyl-1H-pyrazol-4-yl, 5-(acetylamino)pyridin-2-yl, 5-[(cyclopropylcarbonyl)amino]pyridin-2-yl, 4-(4-chlorophenyl)-1,3-thiazol-2-yl, 5-[(4-fluorobenzoyl)amino]pyridin-2-yl, 5-[bis(methylsulfonyl)amino]pyridin-2-yl, 5-(methylcarbamoyl)pyridin-2-yl, 5-(2,2,2-trifluoroethoxy)pyridin-2-yl, 4-(2-fluorophenyl)-1,3-thiazol-2-yl, 1-methyl-3-(trifluoromethyl)-1H-pyrazol-4-yl, 5-[3-(trifluoromethyl)-1H-pyrazol-1-yl]pyridin-2-yl, 4-(3-chlorophenyl)-1,3-thiazol-2-yl, 4-(4-fluorophenyl)-1,3-thiazol-2-yl, 5-(methylsulfonamido)pyridin-2-yl, 6-cyanopyridin-2-yl, 1,3-benzoxazol-2-yl, 6-(2,2,2-trifluoroethoxy)pyridin-2-yl, 5-(2,2,3,3,3-pentafluoropropoxy)pyridin-2-yl, N-cyclopropyl-pyridin-2-yl-5-carboxamide, 5-methylsulfonylpyridin-2-yl, 6-methylsulfonylpyridin-2-yl, 5-(methoxyiminomethyl)pyridin-2-yl, 5-((2,2,2-trifluoroacetyl)amino)pyridin-2-yl, 5-((2-cyanoacetyl)amino)pyridin-2-yl, 5-pyrazolylpyridin-2-yl, 4,5-dihydrothiazol-2-yl,

5-((1-cyanocyclopropylcarbonyl)amino)pyridin-2-yl, N-(2,2,2-trifluoroethyl)pyridin-2-yl-5-carboxamide, 5-bromothiazol-2-yl, 4-(trifluoromethyl)thiazol-2-yl, 5-(trifluoromethyl)thiazol-2-yl, 5-imidazolyl-pyridin-2-yl, 5-(1,2,4-triazolyl)pyridin-2-yl, 5-chlorothiazol-2-yl, 5-(trifluoromethylsulfonylamino)pyridin-2-yl, 5-((cyclopropylethylthioyl)amino)pyridin-2-yl, 5-(cyclopropylcarbothioylamino)pyridin-2-yl, 5-(2-methylpropylthioylamino)pyridin-2-yl, pyridin-2-yl-5-carboxamide, 5-((1-chlorocyclopropylcarbonyl)amino)pyridin-2-yl, N-(4-fluorophenyl)pyridin-2-yl-5-carboxamide, N-cyclopropyl-N-methyl-pyridin-2-yl-5-carboxamide, N-methylsulfonyl-pyridin-2-yl-5-carboxamide, N-(1-cyanocyclopropyl)pyridin-2-yl-5-carboxamide, 5-iodothiazol-2-yl, 4-(2,4-difluorophenyl)thiazol-2-yl, N,N-dimethyl-pyridin-2-yl-5-carboxamide, N,N-diethyl-pyridin-2-yl-5-carboxamide, N-isobutyl-pyridin-2-yl-5-carboxamide, 5-((2-cyclopropylacetyl)amino)pyridin-2-yl, 5-((2,2-difluorocyclopropylcarbonyl)amino)pyridin-2-yl, 5-((3,3-((Z)-2-chloro-3,3,3-trifluoro-prop-1-enyl)-2,2-dimethyl-cyclopropylcarbonyl)amino)pyridin-2-yl, 5-(propanoylamino)pyridin-2-yl, 5-((3-chlorobenzoyl)amino)pyridin-2-yl, 5-(4,4,4-trifluorobutoxy)pyridin-2-yl, N-ethyl-pyridin-2-yl-5-carboxamide, N-(1,2-dimethylpropyl)pyridin-2-yl-5-carboxamide, 5-((2-chlorobenzoyl)amino)pyridin-2-yl, N-cyanomethyl-pyridin-2-yl-5-carboxamide, N-(2-chlorophenyl)-pyridin-2-yl-5-carboxamide, N-(4-chlorophenyl)-pyridin-2-yl-5-carboxamide, N-(3-chlorophenyl)-pyridin-2-yl-5-carboxamide, or 4-pyrazol-1-yl-pyridin-2-yl;

R^5 is hydrogen, methyl, propyl or trifluoromethyl.

5. The compound according to claim 1, comprising a structure according to formula (I')



(I').

6. The compound according to claim 1, in which Q^1 represents N or CR^5 and Q^2 represents N.

7. The compound according to claim 1, in Q^1 represents N and Q^2 represents CR^5.

8. A formulation, optionally an agrochemical formulation, comprising at least one compound of the formula (I) according to claim 1.

9. The formulation according to Claim 8, further comprising at least one extender and/or at least one surface-active substance.

10. The formulation according to Claim 8, wherein the compound of formula (I) is in a mixture with at least one further active compound.

11. A product comprising a compound of formula (I) according to claim 1 or of a formulation thereof for controlling one or more animal pests.

12. The product according to Claim 11, wherein the animal pest comprises an insect, an arachnid or a nematode, or the animal pest is an insect, an arachnid or a nematode.

13. A product according to Claim 11 in crop protection.

14. A product according to Claim 11 in the field of animal health.

15. The compound according to claim 1,

wherein

R^4 is pyridine, pyrimidine, pyrazine or pyridazine, wherein the pyridine, pyrimidine, pyrazine or pyridazine is substituted with a total of one to three substituent(s), provided at least one and up to three substituent(s) are independently selected from group A consisting of

-CN, -COOH, -$CONH_2$, -$CSNH_2$, -NO_2, -NH_2, substituted C_3-C_4cycloalkyl, C_1-C_4haloalkoxy, C_1-C_6alkylthio, C_1-C_6alkylsulfinyl, C_1-C_6alkylsulfonyl, C_3-C_6cycloalkylsulfanyl, C_3-C_6cycloalkylsulfinyl, C_3-C_6cycloalkylsulfonyl, C_1-C_3haloalkylthio, C_1-C_3haloalkylsulfinyl, C_1-C_3haloalkylsulfonyl, -NH(C_1-C_4alkyl), -N(C_1-C_4alkyl)$_2$, -NHCO-C_1-C_4alkyl, -NHCO-C_1-C_4haloalkyl, -NHCO-C_1-C_4cyanoalkyl, -NHCO-C_3-C_6cycloalkyl, wherein the cycloalkyl is optionally substituted with one to three substituents selected from the group consisting of cyano, halogen, C_1-C_3alkyl and C_2-C_4haloalkenyl; -NHCO-C_1-C_4alkyl-C_3-C_6cycloalkyl, -NHCO-phenyl, wherein the phenyl is optionally substituted with one to two substituents selected from the group consisting of halogen, CN, C_1-C_6alkyl and C_1-C_3haloalkyl; -N(SO_2C_1-C_3alkyl)$_2$, -NH(SO_2C_1-C_3alkyl), -N(C_1-C_4alkyl)CO-C_1-C_4alkyl, -$NHSO_2C_1$-C_4haloalkyl, -NHCS-C_1-C_4alkyl, -NHCS-C_3-

C_5cycloalkyl, -NHCS-C_1-C_4alkyl-C_3-C_5cycloalkyl, -CO_2C_1-C_4alkyl, -CONH(C_1-C_5alkyl), wherein the alkyl is optionally substituted with one to three substituents selected from the group consisting of cyano and halogen; -CON(C_1-C_4alkyl)$_2$, -CONH-C_3-C_5cycloalkyl, wherein the cycloalkyl is optionally substituted with one to three substituents selected from the group consisting of cyano and halogen; -CON(C_1-C_5alkyl)(C_3-C_5cycloalkyl), CONH-phenyl, wherein the phenyl is optionally substituted with one to three substituents selected from the group consisting of cyano and halogen; -CONHSO_2-C_1-C_4alkyl, -C(=NOC_1-C_4alkyl)H, -C(=NOC_1-C_4alkyl)-C_1-C_4alkyl;

and phenyl and 5- to 6-membered heteroaryl, wherein the phenyl or 5- to 6-membered heteroaryl is optionally substituted with one to two substituents, each independently selected from the group consisting of halogen, -CN, C_1-C_6alkyl, C_1-C_3haloalkyl and C_1-C_4alkoxy;

the other one to two optional substituent(s) are each independently selected from group B consisting of

halogen, hydroxy, -CN, -COOH, -$CONH_2$, -NO_2, -NH_2, C_1-C_6alkyl, C_3-C_6cycloalkyl, C_1-C_3haloalkyl, C_1-C_4alkoxy, C_1-C_3haloalkoxy, C_1-C_6alkylthio, C_1-C_6alkylsulfinyl, C_1-C_6alkylsulfonyl, C_3-C_6cycloalkylsulfanyl, C_3-C_6cycloalkylsulfinyl, C_3-C_6cycloalkylsulfonyl, C_1-C_3haloalkylthio, C_1-C_3haloalkylsulfinyl, C_1-C_3haloalkylsulfonyl, -NH(C_1-C_4alkyl), -N(C_1-C_4alkyl)$_2$, -NHCO-C_1-C_4alkyl, -N(C_1-C_4alkyl)CO-C_1-C_4alkyl, -CO_2C_1-C_4alkyl, -CONH(C_1-C_4alkyl), -CON(C_1-C_4alkyl)$_2$, -C(=NOC_1-C_4alkyl)H, -C(=NOC_1-C_4alkyl)-C_1-C_4alkyl;

and phenyl and 5- to 6-membered heteroaryl, wherein the phenyl or 5- to 6-membered heteroaryl is optionally substituted with one to two substituents, each independently selected from the group consisting of halogen, -CN, C_1-C_6alkyl, C_1-C_3haloalkyl and C_1-C_4alkoxy.

16. The compound according to claim 2, wherein

R4 is pyridine, pyrimidine, pyrazine or pyridazine, wherein the pyridine, pyrimidine, pyrazine or pyridazine is substituted with a total of one to three substituent(s), provided at least one and up to three substituent(s) are independently selected from group A consisting of

$-CONH_2$, -CN, $-NO_2$, $-NH_2$, substituted C_3-C_4cycloalkyl, C_1-C_4haloalkoxy, C_1-C_3alkylthio, C_1-C_3alkylsulfinyl, C_1-C_3alkylsulfonyl, C_1-C_3haloalkylthio, C_1-C_3haloalkylsulfinyl, C_1-C_3haloalkylsulfonyl, -NHCO-C_1-C_4alkyl, -NHCO-C_1-C_4haloalkyl, -NHCO-C_1-C_4cyanoalkyl, -NHCO-C_3-C_6cycloalkyl, wherein the cycloalkyl is optionally substituted with one to three substituents selected from the group consisting of cyano, halogen, C_1-C_3alkyl and C_2-C_4haloalkenyl; -NHCO-C_1-C_3alkyl-C_3-C_4cycloalkyl, -NHCO-phenyl, wherein the phenyl is optionally substituted with one to two substituents selected from the group consisting of fluorine and chlorine; $-N(SO_2C_1$-C_3alkyl$)_2$, $-NH(SO_2C_1$-C_3alkyl), $-NHSO_2C_1$-C_4haloalkyl, -NHCS-C_1-C_4alkyl, -NHCS-C_3-C_5cycloalkyl, -NHCS-C_1-C_4alkyl-C_3-C_5cycloalkyl, $-CO_2C_1$-C_4alkyl, -CONH(C_1-C_5alkyl), wherein the alkyl is optionally substituted with one to three substituents selected from the group consisting of cyano and halogen; -CON(C_1-C_4alkyl$)_2$, -CONH-C_3-C_5cycloalkyl, wherein the cycloalkyl is optionally substituted with one to three substituents selected from the group consisting of cyano and halogen; -CON(C_1-C_5alkyl)(C_3-C_5cycloalkyl), CONH-phenyl, wherein the phenyl is optionally substituted with one to three substituents selected from the group consisting of cyano and halogen; $-CONHSO_2$-C_1-C_4alkyl -C(=NOC_1-C_4alkyl)H, -C(=NOC_1-C_4alkyl)-C_1-C_4alkyl;

and phenyl and 5- to 6-membered heteroaryl, wherein the phenyl or 5- to 6-membered heteroaryl is optionally substituted with one to two substituents, each independently selected from the group consisting of halogen, -CN, C_1-C_6alkyl and C_1-C_3haloalkyl;

the other one to two optional substituent(s) are each independently selected from group B consisting of

halogen, -CN, C_1-C_6alkyl, C_3-C_6cycloalkyl, C_1-C_3haloalkyl, C_1-C_4alkoxy, C_1-C_3haloalkoxy, C_1-C_3alkylthio, C_1-C_3alkylsulfinyl, C_1-C_3alkylsulfonyl, C_1-C_3haloalkylthio, C_1-C_3haloalkylsulfinyl, C_1-C_3haloalkylsulfonyl, -NHCO-C_1-C_4alkyl, -CONH(C_1-C_4alkyl), -CON(C_1-C_4alkyl$)_2$, -C(=NOC_1-C_4alkyl)H, -C(=NOC_1-C_4alkyl)-C_1-C_4alkyl;

and phenyl and 5- to 6-membered heteroaryl, wherein the phenyl or 5- to 6-membered heteroaryl is optionally substituted with one to two substituents, each independently selected from the group consisting of halogen, -CN, C_1-C_6alkyl and C_1-C_3haloalkyl.

17. The compound according to claim 3, wherein

R4 is pyridine, pyrimidine, pyrazine or pyridazine, wherein the pyridine, pyrimidine, pyrazine or pyridazine is substituted with a total of one to three substituent(s), provided at least one and up to three substituent(s) are independently selected from group A consisting of

$-CONH_2$, -CN, $-NO_2$, $-NH_2$, trifluoromethoxy, difluoromethoxy, 2,2,2-trifluoroethoxy, 2,2,3,3,3-pentafluoropropoxy, 4,4,4-trifluorobutoxy, methylthio, methylsulfinyl, methylsulfonyl, difluoromethylthio, difluoromethylsulfinyl, difluoromethylsulfonyl, trifluoromethylthio, trifluoromethylsulfinyl, trifluoromethylsulfonyl, methoxyiminomethyl, $-NHCO-C_1-C_3$alkyl, $-NHCO-C_1-C_3$haloalkyl, $-NHCO-C_1-C_3$cyanoalkyl, $-NHCO-C_3-C_5$cycloalkyl, wherein the cycloalkyl is optionally substituted with one to three substituents selected from the group consisting of cyano, fluorine, chlorine, methyl and C_2-C_4haloalkenyl; $-NHCO-C_1-C_3$alkyl-C_3-C_4cycloalkyl, -NHCO-phenyl, wherein the phenyl is optionally substituted with one to two substituents selected from the group consisting of fluorine and chlorine; $-N(SO_2C_1-C_3alkyl)_2$, $-NHSO_2C_1-C_3$alkyl, $-NHSO_2C_1-C_3$haloalkyl, $-NHCS-C_1-C_3$alkyl, $-NHCS-C_3-C_4$cycloalkyl, $-NHCS-C_1-C_3$alkyl- C_3-C_4cycloalkyl, $-CONH(C_1-C_5alkyl)$, wherein the alkyl is optionally substituted with one to three substituents selected from the group consisting of cyano, fluorine and chlorine; $-CON(C_1-C_3alkyl)_2$, $-CONH-C_3-C_4$cycloalkyl, wherein the cycloalkyl is optionally substituted with one to three substituents selected from the group consisting of cyano, fluorine and chlorine; $-CON(C_1-C_3alkyl)(C_3-C_4cycloalkyl)$, -CONH-phenyl, wherein the phenyl is optionally substituted with one to three substituents selected from the group consisting of cyano, fluorine and chlorine; $-CONHSO_2-C_1-C_3$alkyl, $-CO_2C_1-C_4$alkyl;

and phenyl and 5-membered heteroaryl, wherein the phenyl or 5-membered heteroaryl is optionally substituted with one to two substituents selected from the group consisting of fluorine, chlorine, bromine, -CN, difluoromethyl and trifluoromethyl;

the other one to two optional substituents are each independently selected from group B consisting of

fluorine, chlorine, bromine, iodine, -CN, methyl, cyclopropyl, difluoromethyl, trifluoromethyl, methoxy, trifluoromethoxy, difluoromethoxy, methylthio,

methylsulfinyl, methylsulfonyl, difluoromethylthio, difluoromethylsulfinyl, difluoromethylsulfonyl, trifluoromethylthio, trifluoromethylsulfinyl, trifluoromethylsulfonyl and phenyl, wherein the phenyl is optionally substituted with one to two substituents selected from the group consisting of fluorine, chlorine, bromine, -CN, difluoromethyl and trifluoromethyl.

18. The compound according to claim 4, wherein

R4 is 5-cyanopyridin-2-yl, 5-cyanopyrimidin-2-yl, 5-(trifluoromethoxy)pyrimidin-2-yl, 5-(difluoromethoxy)pyrimidin-2-yl, 4-cyanopyridin-2-yl, 5-(trifluoromethoxy)pyridin-2-yl, 5-(trifluoromethyl)-1,3,4-thiadiazol-2-yl, 5-chloro-4-(difluoromethyl)-1,3-thiazol-2-yl, 5-(4-fluorophenyl)-1,3,4-thiadiazol-2-yl, 1,1-dioxothiolan-3-yl, 5-(trifluoromethylthio)pyridin-2-yl, 5-(trifluoromethylsulfonyl)pyridin-2-yl, 5-nitropyridin-2-yl, 5-(difluoromethoxy)pyridin-2-yl, 5-aminopyridin-2-yl, 5-(methoxycarbonyl)pyridin-2-yl, 3-(difluoromethyl)-1-methyl-1H-pyrazol-4-yl, 5-(acetylamino)pyridin-2-yl, 5-[(cyclopropylcarbonyl)amino]pyridin-2-yl, 4-(4-chlorophenyl)-1,3-thiazol-2-yl, 5-[(4-fluorobenzoyl)amino]pyridin-2-yl, 5-[bis(methylsulfonyl)amino]pyridin-2-yl, 5-(methylcarbamoyl)pyridin-2-yl, 5-(2,2,2-trifluoroethoxy)pyridin-2-yl, 4-(2-fluorophenyl)-1,3-thiazol-2-yl, 1-methyl-3-(trifluoromethyl)-1H-pyrazol-4-yl, 5-[3-(trifluoromethyl)-1H-pyrazol-1-yl]pyridin-2-yl, 4-(3-chlorophenyl)-1,3-thiazol-2-yl, 4-(4-fluorophenyl)-1,3-thiazol-2-yl, 5-(methylsulfonamido)pyridin-2-yl, 6-cyanopyridin-2-yl, 1,3-benzoxazol-2-yl, 6-(2,2,2-trifluoroethoxy)pyridin-2-yl, 5-(2,2,3,3,3-pentafluoropropoxy)pyridin-2-yl, N-cyclopropyl-pyridin-2-yl-5-carboxamide, 5-methylsulfonylpyridin-2-yl, 6-methylsulfonylpyridin-2-yl, 5-(methoxyiminomethyl)pyridin-2-yl, 5-((2,2,2-trifluoroacetyl)amino)pyridin-2-yl, 5-((2-cyanoacetyl)amino)pyridin-2-yl, 5-pyrazolylpyridin-2-yl, 4,5-dihydrothiazol-2-yl, 5-((1-cyanocyclopropylcarbonyl)amino)pyridin-2-yl, N-(2,2,2-trifluoroethyl)pyridin-2-yl-5-carboxamide, 5-bromothiazol-2-yl, 4-(trifluoromethyl)thiazol-2-yl, 5-(trifluoromethyl)thiazol-2-yl, 5-imidazolyl-pyridin-2-yl, 5-(1,2,4-triazolyl)pyridin-2-yl, 5-chlorothiazol-2-yl, 5-(trifluoromethylsulfonylamino)pyridin-2-yl, 5-((cyclopropylethylthioyl)amino)pyridin-2-yl, 5-(cyclopropylcarbothioylamino)pyridin-2-yl, 5-(2-methylpropylthioylamino)pyridin-2-yl, pyridin-2-yl-5-carboxamide, 5-((1-chlorocyclopropylcarbonyl)amino)pyridin-2-yl, N-(4-fluorophenyl)pyridin-2-yl-5-carboxamide, N-cyclopropyl-N-methyl-pyridin-2-yl-5-carboxamide, N-methylsulfonyl-pyridin-2-yl-5-carboxamide, N-(1-cyanocyclopropyl)pyridin-2-yl-5-carboxamide, 5-iodothiazol-2-yl, 4-(2,4-

difluorophenyl)thiazol-2-yl, N,N-dimethyl-pyridin-2-yl-5-carboxamide, N,N-diethyl-pyridin-2-yl-5-carboxamide, N-isobutyl-pyridin-2-yl-5-carboxamide, 5-((2-cyclopropylacetyl)amino)pyridin-2-yl, 5-((2,2-difluorocyclopropylcarbonyl)amino)pyridin-2-yl, 5-((3,3-((Z)-2-chloro-3,3,3-trifluoro-prop-1-enyl)-2,2-dimethyl-cyclopropylcarbonyl)amino)pyridin-2-yl, 5-(propanoylamino)pyridin-2-yl, 5-((3-chlorobenzoyl)amino)pyridin-2-yl, 5-(4,4,4-trifluorobutoxy)pyridin-2-yl, N-ethyl-pyridin-2-yl-5-carboxamide, N-(1,2-dimethylpropyl)pyridin-2-yl-5-carboxamide, 5-((2-chlorobenzoyl)amino)pyridin-2-yl, N-cyanomethyl-pyridin-2-yl-5-carboxamide, N-(2-chlorophenyl)-pyridin-2-yl-5-carboxamide, N-(4-chlorophenyl)-pyridin-2-yl-5-carboxamide, N-(3-chlorophenyl)-pyridin-2-yl-5-carboxamide, or 4-pyrazol-1-yl-pyridin-2-yl.