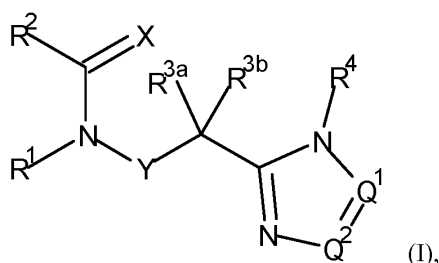


Claims:

1. Compound of the formula (I)



in which

- 5 X is O or S;

Q¹ and Q² are independently CR⁵ or N, provided at least one of Q¹ and Q² is N;

Y is a direct bond or optionally substituted CH₂;

- 10 R¹ is hydrogen; C₁-C₆alkyl optionally substituted with one substituent selected from -CN, -CONH₂, -COOH, -NO₂ and -Si(CH₃)₃; C₁-C₆haloalkyl; C₂-C₆alkenyl; C₂-C₆haloalkenyl; C₂-C₆alkynyl; C₂-C₆haloalkynyl; C₃-C₄cycloalkyl-C₁-C₂alkyl- wherein the C₃-C₄cycloalkyl is optionally substituted with one or two halogen atoms; oxetan-3-yl-CH₂- or benzyl optionally substituted with halogen or C₁-C₃haloalkyl;

- 15 R² is phenyl, pyridine, pyrimidine, pyrazine or pyridazine, wherein the phenyl, pyridine, pyrimidine, pyrazine or pyridazine is substituted with one to five substituents, provided at least one substituent is on either carbon adjacent to the carbon bonded to the C=X group, each independently selected from the group consisting of

halogen, hydroxy, -NH₂, -CN, -SF₅, -COOH, -CONH₂, -NO₂,

- 20 and in each case optionally substituted C₁-C₆alkyl, C₃-C₆cycloalkyl, C₃-C₆cycloalkyl-C₁-C₆alkyl, C₁-C₆haloalkyl, C₁-C₆alkoxy, C₁-C₆haloalkoxy, C₁-C₆alkylthio, C₁-C₆alkylsulfinyl, C₁-C₆alkylsulfonyl, C₁-C₆haloalkylthio, C₃-C₆cycloalkylsulfinyl, C₃-C₆cycloalkylsulfonyl, C₃-C₆cycloalkylsulfinyl, C₁-C₆haloalkylsulfinyl, C₁-C₆haloalkylsulfonyl, phenylsulfinyl, phenylsulfonyl, -NH(C₁-C₆alkyl), -N(C₁-C₆alkyl)₂, -NHCO-C₁-C₆alkyl, -N(C₁-C₆alkyl)CO-C₁-C₆alkyl, -NHCO-phenyl, -CO₂C₁-C₆alkyl, -CONH(C₁-C₆alkyl), -CON(C₁-C₆alkyl)₂, -CONH(C₃-C₆cycloalkyl), -

CON(C₁-C₆alkyl)(C₃-C₆cycloalkyl), -C(=NOC₁-C₆alkyl)H, -C(=NOC₁-C₆alkyl)-C₁-C₆alkyl;

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, in each case optionally substituted C₁-C₆alkyl, C₁-C₆haloalkyl and C₁-C₆alkoxy;

and an optionally substituted 4- to 6-membered saturated or partially unsaturated heterocyclic ring;

or

10 R² is phenyl, pyridine, pyrimidine, pyrazine or pyridazine, wherein the phenyl, pyridine, pyrimidine, pyrazine or pyridazine is substituted with a total of one to three substituents, provided the substituent(s) are not on either carbon adjacent to the carbon bonded to the C=X group and at least one and up to three substituent(s) are independently selected from group A consisting of

15 optionally substituted C₄-C₆alkyl;

C₁-C₆alkylthio, optionally substituted by one to three substituents independently selected from the group consisting of -NH₂, -OH, -NO₂, -CN, -SH, CO₂C₁-C₄alkyl, -CONH₂, SF₅, -SO₂NH₂, C₁-C₄alkyl, C₃-C₄cycloalkyl, C₂-C₄alkenyl, C₅-C₆cycloalkenyl, C₂-C₄alkynyl, -NH(C₁-C₆alkyl), -N(C₁-C₆alkyl)₂, *N*-C₁-C₄alkanoylamino, C₁-C₄alkoxy, C₁-C₄haloalkoxy, C₂-C₄alkenyloxy, C₂-C₄alkynyloxy, C₃-C₄cycloalkoxy, C₅-C₆cycloalkenyloxy, C₁-C₄alkoxycarbonyl, C₂-C₄alkenyloxy carbonyl, C₂-C₄alkynyloxy carbonyl, C₆,C₁₀,C₁₄-aryloxy carbonyl, C₁-C₄alkanoyl, C₂-C₄alkenyl carbonyl, C₂-C₄alkynyl carbonyl, C₆,C₁₀,C₁₄-aryl carbonyl, C₁-C₄alkylthio, C₁-C₄haloalkylthio, C₃-C₄cycloalkylthio, C₂-C₄alkenylthio, C₅-C₆cycloalkenylthio, C₂-C₄alkynylthio, C₁-C₄alkylsulfinyl, C₁-C₄haloalkylsulfinyl, C₁-C₄alkylsulfonyl, C₁-C₄haloalkylsulfonyl, -SO₂-NH(C₁-C₆alkyl), -SO₂-N(C₁-C₆alkyl)₂, C₁-C₄alkylphosphinyl, C₁-C₄alkylphosphonyl, *N*-C₁-C₄alkylaminocarbonyl, *N,N*-di-C₁-C₄alkylaminocarbonyl, *N*-C₁-C₄alkanoylaminocarbonyl, *N*-C₁-C₄alkanoyl-*N*-C₁-C₄alkylaminocarbonyl, C₆,C₁₀,C₁₄-aryl, C₆,C₁₀,C₁₄-aryloxy, benzyl, benzyloxy, benzylthio, C₆,C₁₀,C₁₄-arylthio, C₆,C₁₀,C₁₄-aryl amino, benzyl amino, heterocyclyl, heteroaryl and trialkylsilyl, substituents bonded via a double bond, such as C₁-C₄alkylidene (e.g. methylenide or ethylenide), an oxo group, an imino group and a substituted imino group;

and in each case optionally substituted C₄-C₆haloalkylthio, C₄-C₆haloalkoxy, C₄-C₆alkoxy, C₄-C₆haloalkyl, C₃-C₆cycloalkyl, C₁-C₆alkylsulfinyl, C₁-C₆alkylsulfonyl, C₃-C₆cycloalkylsulfinyl, C₃-C₆cycloalkylsulfonyl, C₁-C₆haloalkylsulfinyl, C₁-C₆haloalkylsulfonyl, C₂-C₆alkenylsulfinyl, C₂-C₆alkenylsulfonyl, C₂-C₆alkinylsulfinyl, C₂-C₆alkinylsulfonyl, C₂-C₆alkinylsulfonyl, phenylsulfinyl, phenylsulfonyl, heterocyclylsulfinyl, heterocyclylsulfonyl, heteroarylsulfinyl, heteroarylsulfonyl, S-C₁-C₆alkylsulfinimidoyl, S-C₃-C₆cycloalkylsulfinimidoyl, S-C₂-C₆alkenylsulfinimidoyl, S-C₂-C₆alkinylsulfinimidoyl, S-phenylsulfinimidoyl, S-heterocyclylsulfinimidoyl, S-heteroarylsulfinimidoyl, S-C₁-C₆alkylsulfonimidoyl, S-C₃-C₆cycloalkylsulfonimidoyl, S-C₂-C₆alkenylsulfonimidoyl, S-C₂-C₆alkinylsulfonimidoyl, S-phenylsulfonimidoyl, S-heterocyclylsulfonimidoyl, S-heteroarylsulfonimidoyl, -NH(C₁-C₆alkyl), -N(C₁-C₆alkyl)₂, -NHCO-C₁-C₆alkyl, -N(C₁-C₆alkyl)CO-C₁-C₆alkyl, -N(C₃-C₆cycloalkyl)CO-C₁-C₆alkyl, -NHCO-phenyl, -N(C₁-C₆alkyl)CO-phenyl, -N(C₃-C₆cycloalkyl)CO-phenyl, -NHCO-C₃-C₆cycloalkyl, -N(C₁-C₆alkyl)CO-(C₃-C₆cycloalkyl), -N(C₃-C₆cycloalkyl)CO-(C₃-C₆cycloalkyl), -NHCO-heteroaryl, -N(C₁-C₆alkyl)CO-heteroaryl, -N(C₃-C₆cycloalkyl)CO-heteroaryl, -NHCO-heterocyclyl, -N(C₁-C₆alkyl)CO-heterocyclyl, -N(C₃-C₆cycloalkyl)CO-heterocyclyl, -CO₂C₁-C₆alkyl, -CONH(C₁-C₆alkyl), -CON(C₁-C₆alkyl)₂, -CONH(C₃-C₆cycloalkyl), -CON(C₁-C₆alkyl)(C₃-C₆cycloalkyl), -CON(C₃-C₆cycloalkyl)₂, -CONH-phenyl, -CON(C₁-C₆alkyl)phenyl, -CON(C₃-C₆cycloalkyl)phenyl, -CONH-heteroaryl, -CON(C₁-C₆alkyl)heteroaryl, -CON(C₃-C₆cycloalkyl)heteroaryl, -CONH-heterocyclyl, -CON(C₁-C₆alkyl)heterocyclyl, -CON(C₃-C₆cycloalkyl)heterocyclyl, -C(=NOC₁-C₆alkyl)H, -C(=NOC₁-C₆alkyl)-C₁-C₆alkyl, -NHSO₂-C₁-C₆alkyl, -N(C₁-C₆alkyl)SO₂-C₁-C₆alkyl, -N(C₃-C₆cycloalkyl)SO₂-C₁-C₆alkyl, -NHSO₂-phenyl, -N(C₁-C₆alkyl)SO₂-phenyl, -N(C₃-C₆cycloalkyl)SO₂-phenyl, -NHSO₂-C₃-C₆cycloalkyl, -N(C₁-C₆alkyl)SO₂-(C₃-C₆cycloalkyl), -N(C₃-C₆cycloalkyl)SO₂-(C₃-C₆cycloalkyl), -NHSO₂-heterocyclyl, -N(C₁-C₄alkyl)SO₂-heterocyclyl, -N(C₃-C₆cycloalkyl)SO₂-heterocyclyl, -NHSO₂-heteroaryl, -N(C₁-C₆alkyl)SO₂-heteroaryl, -N(C₃-C₆cycloalkyl)SO₂-heteroaryl, -SO₂NH(C₁-C₆alkyl), -SO₂N(C₁-C₆alkyl)₂, -SO₂N(C₁-C₆alkyl)(C₃-C₆cycloalkyl), -SO₂NH(C₃-C₆cycloalkyl), -SO₂N(C₃-C₆cycloalkyl)₂, -SO₂NH(phenyl), -SO₂N(C₁-C₆alkyl)(phenyl), -SO₂N(C₁-C₄cycloalkyl)(phenyl), -SO₂NH(heteroaryl), -SO₂N(C₁-C₆alkyl)(heteroaryl), -SO₂N(C₃-C₆cycloalkyl)(heteroaryl), -SO₂NH(heterocyclyl), -SO₂N(C₁-C₄alkyl)(heterocyclyl), -SO₂N(C₃-C₆cycloalkyl)(heterocyclyl);

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, in each case optionally substituted C₁-C₆alkyl, C₁-C₆haloalkyl, C₁-C₆alkoxy and C₁-C₆haloalkoxy;

and an optionally substituted 4- to 6-membered saturated or partially unsaturated heterocyclic ring;

5 and -SO₂NH₂;

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

halogen, hydroxy, -NH₂, -CN, -SF₅, -COOH, -CONH₂, -NO₂,

10 and in each case optionally substituted C₁-C₆alkyl, C₃-C₆cycloalkyl, C₃-C₆cycloalkyl-C₁-C₆alkyl, C₁-C₆haloalkyl, C₁-C₆alkoxy, C₁-C₆haloalkoxy, C₁-C₆alkylthio, C₁-C₆alkylsulfinyl, C₁-C₆alkylsulfonyl, C₁-C₆haloalkylthio, C₁-C₆haloalkylsulfinyl, C₁-C₆haloalkylsulfonyl, phenylsulfonyl, phenylsulfinyl, phenylsulfonyl, -NH(C₁-C₆alkyl), -N(C₁-C₆alkyl)₂, -NHCO-C₁-C₆alkyl, -N(C₁-C₆alkyl)CO-C₁-C₆alkyl, -NHCO-phenyl, -CO₂C₁-C₆alkyl, -CONH(C₁-C₆alkyl), -CON(C₁-C₆alkyl)₂, -CONH(C₃-C₆cycloalkyl), -CON(C₁-C₆alkyl)(C₃-C₆cycloalkyl), -C(=NOC₁-C₆alkyl)H, -C(=NOC₁-C₆alkyl)-C₁-C₆alkyl;

15 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, in each case optionally substituted C₁-C₆alkyl, C₁-C₆haloalkyl and C₁-C₆alkoxy;

or

R² is naphthyl optionally substituted by one to three substituents independently selected from the group consisting of

halogen, hydroxy, -CN, -COOH, -CONH₂, -NO₂, -SF₅, -NH₂,

25 and in each case optionally substituted C₁-C₆alkyl, C₃-C₆cycloalkyl, C₃-C₆cycloalkyl-C₁-C₆alkyl, C₁-C₆haloalkyl, C₁-C₆alkoxy, C₁-C₆haloalkoxy, C₁-C₆alkylthio, C₁-C₆alkylsulfinyl, C₁-C₆alkylsulfonyl, C₃-C₆cycloalkylsulfonyl, C₃-C₆cycloalkylsulfinyl, C₃-C₆cycloalkylsulfonyl, C₁-C₆haloalkylthio, C₁-C₆haloalkylsulfinyl, C₁-C₆haloalkylsulfonyl, phenylsulfonyl, phenylsulfinyl, phenylsulfonyl, -NH(C₁-C₆alkyl), -N(C₁-C₆alkyl)₂, -NHCO-C₁-C₆alkyl, -N(C₁-C₆alkyl)CO-C₁-C₆alkyl, -NHCO-phenyl, -

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CO₂C₁-C₆alkyl, -CONH(C₁-C₆alkyl), -CON(C₁-C₆alkyl)₂, -C(=NOC₁-C₆alkyl)H, -C(=NOC₁-C₆alkyl)-C₁-C₆alkyl;

5 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, in each case optionally substituted C₁-C₆alkyl, C₁-C₆haloalkyl and C₁-C₆alkoxy;

or

10 R² is a heterocyclic ring which is selected from the group consisting of 4- to 10-membered saturated and partially unsaturated heterocyclyl, 5-membered heteroaryl, 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, -CONH₂, -NO₂, -SF₅, -NH₂,

15 and in each case optionally substituted C₁-C₆alkyl, C₃-C₆cycloalkyl, C₃-C₆cycloalkyl-C₁-C₆alkyl, C₁-C₆haloalkyl, C₁-C₆alkoxy, C₁-C₆haloalkoxy, C₁-C₆alkylthio, C₁-C₆alkylsulfanyl, C₁-C₆alkylsulfonyl, C₃-C₆cycloalkylsulfanyl, C₃-C₆cycloalkylsulfanyl, C₃-C₆cycloalkylsulfonyl, C₁-C₆haloalkylthio, C₁-C₆haloalkylsulfanyl, C₁-C₆haloalkylsulfonyl, phenylsulfanyl, phenylsulfanyl, phenylsulfonyl, -NH(C₁-C₆alkyl), -N(C₁-C₆alkyl)₂, -NHCO-C₁-C₆alkyl, -N(C₁-C₆alkyl)CO-C₁-C₆alkyl, -NHCO-phenyl, -CO₂C₁-C₆alkyl, -CONH(C₁-C₆alkyl), -CON(C₁-C₆alkyl)₂, -C(=NOC₁-C₆alkyl)H, -C(=NOC₁-C₆alkyl)-C₁-C₆alkyl;

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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, in each case optionally substituted C₁-C₆alkyl, C₁-C₆haloalkyl and C₁-C₆alkoxy;

25 or

R² is in each case optionally substituted C₁-C₆alkyl, C₃-C₆cycloalkyl or C₁-C₆haloalkyl;

30 R^{3a}, R^{3b} are independently selected from the group consisting of hydrogen; halogen; -CN; C₁-C₆alkyl optionally substituted by one to three substituents independently selected from the group consisting of halogen, hydroxy, -CN, -COOH, -CONH₂, -NO₂, -NH₂, in each case optionally substituted C₁-C₆alkyl, C₃-C₆cycloalkyl, C₁-C₆alkoxy, C₁-C₆alkylthio, C₁-C₆alkylsulfanyl, C₁-C₆alkylsulfonyl, -NH(C₁-C₆alkyl), -N(C₁-C₆alkyl)₂, -NHCO-C₁-C₆alkyl,

- 5 -N(C₁-C₆alkyl)CO-C₁-C₆alkyl, -CO₂C₁-C₆alkyl, -CONH(C₁-C₆alkyl), and -CON(C₁-C₆alkyl)₂; optionally substituted C₃-C₆cycloalkyl; optionally substituted C₁-C₆haloalkyl; optionally substituted C₂-C₆alkenyl; optionally substituted C₂-C₆haloalkenyl; optionally substituted C₂-C₆alkynyl; benzyl wherein the phenyl substituent is optionally substituted with one to five substituents, each independently selected from the group consisting of halogen, hydroxy, -CN, -COOH, -CONH₂, -NO₂, -NH₂, -SF₅, in each case optionally substituted C₁-C₆alkyl, C₁-C₆alkoxy, C₁-C₆alkylthio, C₁-C₆alkylsulfinyl, and C₁-C₆alkylsulfonyl; heterocyclyl-C₁-C₆alkyl wherein the heterocyclyl substituent is selected from the group consisting of 4- to 10-membered saturated and partially unsaturated heterocyclyl, 5-membered heteroaryl and 6-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, -CONH₂, -NO₂, -NH₂, in each case optionally substituted C₁-C₆alkyl, and C₁-C₆alkoxy; phenyl optionally substituted with one to five substituents, each independently selected from the group consisting of halogen, hydroxy, -CN, -COOH, -CONH₂, -NO₂, -NH₂, -SF₅, in each case optionally substituted C₁-C₆alkyl, C₁-C₆alkoxy, C₁-C₆alkylthio, C₁-C₆alkylsulfinyl, and C₁-C₆alkylsulfonyl; or heterocyclyl wherein the heterocyclyl substituent is selected from the group consisting of 4- to 10-membered saturated and partially unsaturated heterocyclyl, 5-membered heteroaryl and 6-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, -CONH₂, -NO₂, -NH₂, in each case optionally substituted C₁-C₆alkyl, and C₁-C₆alkoxy;
- 10 or
- 15 R^{3a}, R^{3b} form together with the carbon to which they are connected a C₃-C₆-carbocyclic or 3- to 6-membered heterocyclic ring system, optionally substituted with one to two substituents, each independently selected from the group consisting of halogen, -CN, in each case optionally substituted C₁-C₆alkyl, C₁-C₆alkoxy and C₁-C₆haloalkoxy;
- 20 R⁴ is pyridine, pyrimidine, pyrazine, pyridazine or 5-membered heteroaryl, wherein the pyridine, pyrimidine, pyrazine, pyridazine or 5-membered heteroaryl is optionally substituted with one to three substituents selected from the group consisting of halogen, hydroxy, -CN, -COOH, -CO₂-C₁-C₆alkyl, -SO₂NH₂, -CONH₂, -CSNH₂, -NO₂, -NH₂, in each case optionally substituted C₁-C₆alkyl, C₃-C₆cycloalkyl, C₁-C₆haloalkyl, C₁-C₆alkoxy, C₁-C₆haloalkoxy, C₁-C₆alkylthio, C₁-C₆alkylsulfinyl, C₁-C₆alkylsulfonyl, C₁-C₆haloalkylthio, C₁-C₆haloalkylsulfinyl, C₁-C₆haloalkylsulfonyl, C₃-C₆cycloalkylsulfonyl, C₃-C₆cycloalkylsulfinyl, C₃-C₆cycloalkylsulfonyl, C₂-C₄alkenylsulfonyl, C₂-
- 30
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C₄alkenylsulfinyl, C₂-C₄alkenylsulfonyl, C₂-C₄alkinylsulfanyl, C₂-C₄alkinylsulfinyl, C₂-
 C₄alkinylsulfonyl, phenylsulfanyl, phenylsulfinyl, phenylsulfonyl, S-C₁-
 C₆alkylsulfinimidoyl, S-C₃-C₆cycloalkylsulfinimidoyl, S-C₂-C₆alkenylsulfinimidoyl, S-C₂-
 C₆alkinylsulfinimidoyl, S-phenylsulfinimidoyl, S-C₁-C₆alkylsulfonimidoyl, S-C₃-
 C₆cycloalkylsulfonimidoyl, S-C₂-C₆alkenylsulfonimidoyl, S-C₂-C₆alkinylsulfonimidoyl, S-
 phenylsulfonimidoyl, -NH(C₁-C₆alkyl), -N(C₁-C₆alkyl)₂, -NHCO-C₁-C₆alkyl, -N(C₁-
 C₆alkyl)CO-C₁-C₆alkyl, -N(C₃-C₆cycloalkyl)CO-C₁-C₆alkyl, -NHCO-C₃-C₆cycloalkyl, -
 N(C₁-C₆alkyl)CO-(C₃-C₆cycloalkyl), -N(C₃-C₆cycloalkyl)CO-(C₃-C₆cycloalkyl), -N(C₁-
 C₆alkyl)CO-phenyl, -N(C₃-C₆cycloalkyl)CO-phenyl, -NHCO-phenyl, -N(CO-C₁-C₆alkyl)₂,
 -N(CO-C₃-C₆cycloalkyl)₂, -N(CO-phenyl)₂, -N(CO-C₃-C₆cycloalkyl)(CO-C₁-C₆alkyl), -
 N(CO-C₃-C₆cycloalkyl)(CO-phenyl), -N(CO-C₁-C₆alkyl)(CO-phenyl), -CONH(C₁-
 C₆alkyl), -CON(C₁-C₆alkyl)₂, -CONH(C₃-C₆cycloalkyl), -CON(C₁-C₆alkyl)(C₃-
 C₆cycloalkyl), -CON(C₃-C₆cycloalkyl)₂, -CONH-SO₂-C₁-C₆alkyl, -CONH-SO₂-phenyl, -
 CONH-SO₂-(C₃-C₆cycloalkyl), -CON(C₁-C₆alkyl)-SO₂-C₁-C₆alkyl, -CON(C₁-C₆alkyl)-
 SO₂-phenyl, -CON(C₁-C₆alkyl)-SO₂-(C₃-C₆cycloalkyl), -CONH-phenyl, -CON(C₁-
 C₆alkyl)phenyl, -CON(C₃-C₆cycloalkyl)phenyl, -N(SO₂C₁-C₆alkyl)₂, -N(SO₂C₁-
 C₆haloalkyl)₂, -N(SO₂C₃-C₆cycloalkyl)₂, -N(SO₂C₁-C₆alkyl)SO₂-phenyl, -N(SO₂C₃-
 C₆cycloalkyl)SO₂-phenyl, -NHSO₂-C₁-C₆alkyl, -NHSO₂-C₁-C₆haloalkyl, -N(C₁-
 C₆alkyl)SO₂-C₁-C₆alkyl, -N(C₃-C₆cycloalkyl)SO₂-C₁-C₆alkyl, -NHSO₂-phenyl, -N(C₁-
 C₆alkyl)SO₂-phenyl, -N(C₃-C₆cycloalkyl)SO₂-phenyl, -NHSO₂-C₃-C₆cycloalkyl, -N(C₁-
 C₆alkyl)SO₂-(C₃-C₆cycloalkyl), -N(C₃-C₆cycloalkyl)SO₂-(C₃-C₆cycloalkyl), -SO₂NH(C₁-
 C₆alkyl), -SO₂N(C₁-C₆alkyl)₂, -SO₂N(C₁-C₆alkyl)(C₃-C₆cycloalkyl), -SO₂NH(C₃-
 C₆cycloalkyl), -SO₂N(C₃-C₆cycloalkyl)₂, -SO₂NH(phenyl), -SO₂N(C₁-C₆alkyl)(phenyl), -
 SO₂N(C₁-C₄cycloalkyl)(phenyl), -C(=NOC₁-C₆alkyl)H and -C(=NOC₁-C₆alkyl)-C₁-
 C₆alkyl;

R⁵ is hydrogen, halogen, -CN, or in each case optionally substituted C₁-C₆alkyl, C₃-
 C₆cycloalkyl, C₁-C₆alkoxy, C₁-C₆alkoxyC(O)-, (C₁-C₆alkoxy)₂CH-, -CO₂C₁-C₆alkyl, -
 CONH(C₁-C₆alkyl), -CON(C₁-C₆alkyl)₂, -NHCO-C₁-C₆alkyl, -N(C₁-C₆alkyl)CO-C₁-
 C₆alkyl, -C(=NOC₁-C₆alkyl)H, or -C(=NOC₁-C₆alkyl)-C₁-C₆alkyl.

2. Compound according to Claim 1, in which

X is O or S;

Q¹ and Q² are independently CR⁵ or N, provided at least one of Q¹ and Q² is N;

Y is a direct bond or CH₂;

- R¹ is hydrogen; C₁-C₆alkyl optionally substituted with one substituent selected from -CN, -CONH₂, -COOH, -NO₂ and -Si(CH₃)₃; C₁-C₆haloalkyl; C₂-C₆alkenyl; C₂-C₆haloalkenyl; C₂-C₆alkynyl; C₂-C₆haloalkynyl; C₃-C₄cycloalkyl-C₁-C₂alkyl- wherein the C₃-C₄cycloalkyl is optionally substituted with one or two halogen atoms; oxetan-3-yl-CH₂-; or benzyl optionally substituted with halogen or C₁-C₃haloalkyl;
- R² is phenyl, pyridine, pyrimidine, pyrazine or pyridazine, wherein the phenyl, pyridine, pyrimidine, pyrazine or pyridazine is substituted with one to five substituents, provided at least one substituent is on either carbon adjacent to the carbon bonded to the C=X group, each independently selected from the group consisting of
- halogen, hydroxy, -NH₂, -CN, -SF₅, -COOH, -CONH₂, -NO₂, C₁-C₆alkyl, optionally substituted C₃-C₆cycloalkyl;
- C₃-C₆cycloalkyl-C₁-C₆alkyl, C₁-C₃haloalkyl, C₁-C₄alkoxy, C₁-C₃haloalkoxy, C₁-C₆alkylthio, C₁-C₆alkylsulfinyl, C₁-C₆alkylsulfonyl, C₃-C₆cycloalkylsulfonyl, C₃-C₆cycloalkylsulfinyl, C₃-C₆cycloalkylsulfonyl, C₁-C₃haloalkylthio, C₁-C₃haloalkylsulfinyl, C₁-C₃haloalkylsulfonyl;
- phenylsulfonyl, phenylsulfinyl, phenylsulfonyl, wherein in each case the phenyl is optionally substituted with one to two substituents selected from the group consisting of halogen, CN, C₁-C₆alkyl and C₁-C₃haloalkyl;
- NH(C₁-C₄alkyl), -N(C₁-C₄alkyl)₂, -NHCO-C₁-C₄alkyl, -N(C₁-C₄alkyl)CO-C₁-C₄alkyl;
- NHCO-phenyl, wherein the phenyl is optionally substituted with one to two substituents selected from the group consisting of halogen, CN, C₁-C₆alkyl and C₁-C₃haloalkyl;
- CO₂C₁-C₄alkyl, -CONH(C₁-C₄alkyl), -CON(C₁-C₄alkyl)₂, -CONH(C₃-C₆cycloalkyl), -CON(C₁-C₄alkyl)(C₃-C₆cycloalkyl), -C(=NOC₁-C₄alkyl)H, -C(=NOC₁-C₄alkyl)-C₁-C₄alkyl;
- 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, C₁-C₆alkyl, C₁-C₃haloalkyl and C₁-C₄alkoxy;
- or

- R² is phenyl, pyridine, pyrimidine, pyrazine or pyridazine, wherein the phenyl, pyridine, pyrimidine, pyrazine or pyridazine is substituted with a total of one to three substituents, provided the substituent(s) are not on either carbon adjacent to the carbon bonded to the C=X group and at least one and up to three substituent(s) are independently selected from group A consisting of
- C₄-C₆-alkyl, C₁-C₆alkylthio, C₁-C₆alkylsulfinyl, C₁-C₆alkylsulfonyl, C₃-C₆cycloalkylsulfonyl, C₃-C₆cycloalkylsulfinyl, C₃-C₆cycloalkylsulfonyl, C₁-C₃haloalkylsulfinyl, C₁-C₃haloalkylsulfonyl;
- phenylsulfonyl, phenylsulfinyl, phenylsulfonyl, wherein in each case the phenyl is optionally substituted with one to two substituents selected from the group consisting of halogen, CN, C₁-C₆alkyl and C₁-C₃haloalkyl;
- optionally substituted C₃-C₆cycloalkyl;
- NH(C₁-C₄alkyl), -N(C₁-C₄alkyl)₂, -NHCO-C₁-C₄alkyl, -N(C₁-C₄alkyl)CO-C₁-C₄alkyl, -NHCO-C₃-C₆cycloalkyl, -NHSO₂-phenyl;
- NHCO-phenyl, wherein the phenyl is optionally substituted with one to two substituents selected from the group consisting of halogen, -CN, C₁-C₆alkyl and C₁-C₃haloalkyl;
- CO₂C₁-C₄alkyl, -CONH(C₁-C₄alkyl), -CON(C₁-C₄alkyl)₂, -CONH(C₃-C₆cycloalkyl), -CON(C₁-C₄alkyl)(C₃-C₆cycloalkyl), -C(=NOC₁-C₄alkyl)H, -C(=NOC₁-C₄alkyl)-C₁-C₄alkyl;
- 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, C₁-C₆alkyl, C₁-C₃haloalkyl, C₁-C₄alkoxy and C₁-C₄haloalkoxy;
- and the other one to two optional substituent(s) are each independently selected from group B consisting of
- halogen, hydroxy, -NH₂, -CN, -SF₅, -COOH, -CONH₂, -NO₂, C₁-C₆alkyl,
- optionally substituted C₃-C₆cycloalkyl;

C₃-C₆cycloalkyl-C₁-C₆alkyl, C₁-C₃haloalkyl, C₁-C₄alkoxy, C₁-C₃haloalkoxy, C₁-C₆alkylthio, C₁-C₆alkylsulfinyl, C₁-C₆alkylsulfonyl, C₁-C₃haloalkylthio, C₁-C₃haloalkylsulfinyl, C₁-C₃haloalkylsulfonyl;

5 phenylsulfonyl, phenylsulfinyl, phenylsulfonyl, wherein in each case the phenyl is optionally substituted with one to two substituents selected from the group consisting of halogen, CN, C₁-C₆alkyl and C₁-C₃haloalkyl;

-NH(C₁-C₄alkyl), -N(C₁-C₄alkyl)₂, -NHCO-C₁-C₄alkyl, -N(C₁-C₄alkyl)CO-C₁-C₄alkyl; -NHCO-phenyl, wherein the phenyl is optionally substituted with one to two substituents selected from the group consisting of halogen, CN, C₁-C₆alkyl and C₁-C₃haloalkyl;

10 -CO₂C₁-C₄alkyl, -CONH(C₁-C₄alkyl), -CON(C₁-C₄alkyl)₂, -CONH(C₃-C₆cycloalkyl), -CON(C₁-C₄alkyl)(C₃-C₆cycloalkyl), -C(=NOC₁-C₄alkyl)H, -C(=NOC₁-C₄alkyl)-C₁-C₄alkyl;

15 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, C₁-C₆alkyl, C₁-C₃haloalkyl and C₁-C₄alkoxy;

or

R² is naphthyl optionally substituted by one to three substituents independently selected from the group consisting of

20 halogen, hydroxy, -CN, -COOH, -CONH₂, -NO₂, -SF₅, -NH₂, C₁-C₆alkyl,

optionally substituted C₃-C₆cycloalkyl;

25 C₃-C₆cycloalkyl-C₁-C₆alkyl, C₁-C₃haloalkyl, C₁-C₄alkoxy, C₁-C₃haloalkoxy, C₁-C₆alkylthio, C₁-C₆alkylsulfinyl, C₁-C₆alkylsulfonyl, C₃-C₆cycloalkylsulfonyl, C₃-C₆cycloalkylsulfinyl, C₃-C₆cycloalkylsulfonyl, C₁-C₃haloalkylthio, C₁-C₃haloalkylsulfinyl, C₁-C₃haloalkylsulfonyl;

phenylsulfonyl, phenylsulfinyl, phenylsulfonyl, wherein in each case the phenyl is optionally substituted with one to two substituents selected from the group consisting of halogen, CN, C₁-C₆alkyl and C₁-C₃haloalkyl;

-NH(C₁-C₄alkyl), -N(C₁-C₄alkyl)₂, -NHCO-C₁-C₄alkyl, -N(C₁-C₄alkyl)CO-C₁-C₄alkyl;

-NHCO-phenyl, wherein the phenyl is optionally substituted with one to two substituents selected from the group consisting of halogen, CN, C₁-C₆alkyl and C₁-C₃haloalkyl;

5

-CO₂C₁-C₄alkyl, -CONH(C₁-C₄alkyl), -CON(C₁-C₄alkyl)₂, -C(=NOC₁-C₄alkyl)H, -C(=NOC₁-C₄alkyl)-C₁-C₄alkyl;

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, C₁-C₆alkyl, C₁-C₃haloalkyl and C₁-C₄alkoxy;

10

or

R²

is a heterocyclic ring which is selected from the group consisting of 4- to 10-membered saturated and partially unsaturated heterocyclyl, 5-membered heteroaryl, 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

15

halogen, =O (oxo), hydroxy, -CN, -COOH, -CONH₂, -NO₂, -SF₅, -NH₂, C₁-C₆alkyl,

optionally substituted C₃-C₆cycloalkyl;

20

C₃-C₆cycloalkyl-C₁-C₆alkyl, C₁-C₃haloalkyl, C₁-C₄alkoxy, C₁-C₃haloalkoxy, C₁-C₆alkylthio, C₁-C₆alkylsulfinyl, C₁-C₆alkylsulfonyl, C₃-C₆cycloalkylsulfonyl, C₃-C₆cycloalkylsulfinyl, C₃-C₆cycloalkylsulfonyl, C₁-C₃haloalkylthio, C₁-C₃haloalkylsulfinyl, C₁-C₃haloalkylsulfonyl;

phenylsulfonyl, phenylsulfinyl, phenylsulfonyl, wherein in each case the phenyl is optionally substituted with one to two substituents selected from the group consisting of halogen, CN, C₁-C₆alkyl and C₁-C₃haloalkyl;

25

-NH(C₁-C₄alkyl), -N(C₁-C₄alkyl)₂, -NHCO-C₁-C₄alkyl, -N(C₁-C₄alkyl)CO-C₁-C₄alkyl; -NHCO-phenyl, wherein the phenyl is optionally substituted with one to two substituents selected from the group consisting of halogen, CN, C₁-C₆alkyl and C₁-C₃haloalkyl;

-CO₂C₁-C₄alkyl, -CONH(C₁-C₄alkyl), -CON(C₁-C₄alkyl)₂, -C(=NOC₁-C₄alkyl)H, -C(=NOC₁-C₄alkyl)-C₁-C₄alkyl;

30

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, C₁-C₆alkyl, C₁-C₃haloalkyl and C₁-C₄alkoxy;

or

R² is C₁-C₆alkyl substituted with one substituent selected from the group consisting of

5 C₁-C₃alkoxy-, C₁-C₃haloalkoxy-, C₁-C₆alkylthio, C₁-C₆alkylsulfinyl, C₁-C₆alkylsulfonyl, C₁-C₃haloalkylthio, C₁-C₃haloalkylsulfinyl, C₁-C₃haloalkylsulfonyl;

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, C₁-C₆alkyl, C₁-C₃haloalkyl and C₁-C₄alkoxy;

10 C₃-C₆cycloalkyl optionally substituted with one to two substituents selected from the group consisting of halogen, -CN, -COOH, -CONH₂, C₁-C₆alkyl, C₁-C₆haloalkyl, C₃-C₆cycloalkyl, C₁-C₆alkoxy, -CO₂C₁-C₄alkyl, -CONH(C₁-C₄alkyl), and -CON(C₁-C₄alkyl)₂;

15 and C₁-C₆haloalkyl;

R^{3a}, R^{3b} are independently selected from the group consisting of hydrogen; halogen; -CN; C₁-C₆alkyl optionally substituted by one to three substituents independently selected from the group consisting of hydroxy, -CN, -COOH, -CONH₂, -NO₂, -NH₂, C₁-C₆alkyl, C₃-C₆cycloalkyl, C₁-C₃haloalkyl, C₁-C₄alkoxy, C₁-C₃haloalkoxy, C₁-C₃alkylthio, C₁-C₃alkylsulfinyl, C₁-C₃alkylsulfonyl, C₁-C₃haloalkylthio, C₁-C₃haloalkylsulfinyl, C₁-C₃haloalkylsulfonyl, -NH(C₁-C₄alkyl), -N(C₁-C₄alkyl)₂, -NHCO-C₁-C₄alkyl, -N(C₁-C₄alkyl)CO-C₁-C₄alkyl, -CO₂C₁-C₄alkyl, -CONH(C₁-C₄alkyl), and -CON(C₁-C₄alkyl)₂; C₃-C₆cycloalkyl optionally substituted with one to two substituents selected from the group consisting of halogen, -CN, -COOH, -CONH₂, C₁-C₆alkyl, C₁-C₆haloalkyl, C₃-C₆cycloalkyl, C₁-C₆alkoxy, C₁-C₆haloalkoxy, -CO₂C₁-C₄alkyl, -CONH(C₁-C₄alkyl), and -CON(C₁-C₄alkyl)₂; C₁-C₆haloalkyl optionally substituted with one to two substituents selected from the group consisting of hydroxy, -CN, C₃-C₆cycloalkyl, C₁-C₆alkoxy, C₁-C₆haloalkoxy, -CO₂C₁-C₄alkyl, -CONH(C₁-C₄alkyl), and -CON(C₁-C₄alkyl)₂; C₂-C₆alkenyl; C₂-C₆haloalkenyl; C₂-C₆alkynyl; C₂-C₆haloalkynyl; benzyl wherein the phenyl substituent is optionally substituted with one to five substituents, each independently selected from the group consisting of halogen, hydroxy, -CN, -COOH, -CONH₂, -NO₂, -NH₂, -SF₅, C₁-C₆alkyl, C₁-C₃haloalkyl, C₁-C₄alkoxy, C₁-C₄haloalkoxy, C₁-C₃alkylthio, C₁-C₃alkylsulfinyl, C₁-C₃alkylsulfonyl, C₁-C₃haloalkylthio, C₁-C₃haloalkylsulfinyl, and C₁-C₃haloalkylsulfonyl;

C₃haloalkylsulfonyl; heterocyclyl-C₁-C₆alkyl wherein the heterocyclyl substituent is selected from the group consisting of 4- to 10-membered saturated and partially unsaturated heterocyclyl, 5-membered heteroaryl and 6-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, -CONH₂, -NO₂, -NH₂, C₁-C₆alkyl, C₁-C₃haloalkyl and C₁-C₄alkoxy; phenyl optionally substituted with one to five substituents, each independently selected from the group consisting of halogen, hydroxy, -CN, -COOH, -CONH₂, -NO₂, -NH₂, -SF₅, C₁-C₆alkyl, C₁-C₃haloalkyl, C₁-C₄alkoxy, C₁-C₄haloalkoxy, C₁-C₃alkylthio, C₁-C₃alkylsulfinyl, C₁-C₃alkylsulfonyl, C₁-C₃haloalkylthio, C₁-C₃haloalkylsulfinyl, and C₁-C₃haloalkylsulfonyl; and heterocyclyl wherein the heterocyclyl substituent is selected from the group consisting of 4- to 10-membered saturated and partially unsaturated heterocyclyl, 5-membered heteroaryl and 6-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, -CONH₂, -NO₂, -NH₂, C₁-C₆alkyl, C₁-C₃haloalkyl and C₁-C₄alkoxy;

or

R^{3a}, R^{3b} form together with the carbon to which they are connected a C₃-C₆-carbocyclic or 3- to 6-membered heterocyclic ring system, optionally substituted with one to two substituents, each independently selected from the group consisting of halogen, -CN, C₁-C₆alkyl, C₁-C₃haloalkyl, C₁-C₄alkoxy and C₁-C₃haloalkoxy;

R⁴ is pyridine, pyrimidine, pyrazine, pyridazine or 5-membered heteroaryl, wherein the pyridine, pyrimidine, pyrazine, pyridazine or 5-membered heteroaryl is optionally substituted with one to three substituents selected from the group consisting of halogen, hydroxy, -CN, -COOH, -CO₂-C₁-C₆alkyl, -CONH₂, -CSNH₂, -NO₂, -NH₂, C₁-C₆alkyl, C₃-C₆cycloalkyl, C₁-C₃haloalkyl, C₁-C₄alkoxy, C₁-C₃haloalkoxy, C₁-C₆alkylthio, C₁-C₆alkylsulfinyl, C₁-C₆alkylsulfonyl, C₁-C₃haloalkylthio, C₁-C₃haloalkylsulfinyl, C₁-C₃haloalkylsulfonyl, -NH(C₁-C₄alkyl), -N(C₁-C₄alkyl)₂, -NHCO-C₁-C₄alkyl, wherein the alkyl is optionally substituted with -CN, C₁-C₆alkyl and C₁-C₄alkoxy; -NHCO-C₁-C₄haloalkyl, -NHCO-C₃-C₆cycloalkyl, wherein the cycloalkyl is optionally substituted with one to two substituents selected from the group consisting of halogen, -CN, C₁-C₆alkyl or C₁-C₄alkoxy; -NHCO-phenyl, wherein the phenyl is optionally substituted with one to two substituents selected from the group consisting of halogen, -CN, C₁-C₆alkyl and C₁-C₃haloalkyl; -N(C₁-C₄alkyl)CO-C₁-C₄alkyl, -N(C₁-C₄alkyl)CO-C₃-C₆cycloalkyl; -N(C₁-C₄alkyl)CO-phenyl, wherein the phenyl is optionally substituted with one to two substituents selected from the group consisting of halogen, CN, C₁-C₆alkyl and C₁-

- 5 C₃haloalkyl; -N(SO₂C₁-C₃alkyl)₂, -NH(SO₂C₁-C₃alkyl), -N(C₁-C₄alkyl)(SO₂C₁-C₃alkyl), -N(SO₂C₁-C₃haloalkyl)₂, -NH(SO₂C₁-C₃haloalkyl), -CONH(C₁-C₄alkyl), -CON(C₁-C₄alkyl)₂, -CONH-SO₂-C₁-C₃alkyl, -CON(C₁-C₄alkyl)(C₃-C₆cycloalkyl), -CONH(C₁-C₄haloalkyl), -CONH(C₃-C₆cycloalkyl), -CONH(C₃-C₆cyanocycloalkyl), -C(=NOC₁-C₄alkyl)H and -C(=NOC₁-C₄alkyl)-C₁-C₄alkyl; and -CONH-phenyl, wherein the phenyl is optionally substituted with one to two substituents, each independently selected from the group consisting of halogen, -CN, C₁-C₆alkyl, C₁-C₃haloalkyl and C₁-C₄alkoxy;
- 10 R⁵ is hydrogen, halogen, -CN, C₁-C₃alkyl, C₁-C₃haloalkyl, C₃-C₄cycloalkyl, C₁-C₃alkoxy, C₁-C₃haloalkoxy, C₁-C₃alkoxyC(O)-, (C₁-C₃alkoxy)₂CH-, -CO₂C₁-C₄alkyl, -CONH(C₁-C₄alkyl), -CON(C₁-C₄alkyl)₂, -NHCO-C₁-C₄alkyl, -N(C₁-C₄alkyl)CO-C₁-C₄alkyl, -C(=NOC₁-C₄alkyl)H, or -C(=NOC₁-C₄alkyl)-C₁-C₄alkyl.
3. Compound according to Claim 1 or 2, in which
- X is O or S;
- Q¹ and Q² are independently CR⁵ or N, provided at least one of Q¹ and Q² is N;
- 15 Y is a direct bond or CH₂;
- R¹ is hydrogen; C₁-C₃alkyl optionally substituted with one substituent selected from -CN, -CONH₂, -COOH, -NO₂ and -Si(CH₃)₃; C₁-C₃haloalkyl; C₂-C₄alkenyl; C₂-C₄haloalkenyl; C₂-C₄alkynyl; C₂-C₄haloalkynyl; C₃-C₄cycloalkyl-C₁-C₂alkyl- wherein the C₃-C₄cycloalkyl is optionally substituted with one or two halogen atoms; oxetan-3-yl-CH₂-; or benzyl optionally substituted with halogen or C₁-C₃haloalkyl;
- 20 R² is phenyl, pyridine, pyrimidine, pyrazine or pyridazine, wherein the phenyl, pyridine, pyrimidine, pyrazine or pyridazine is substituted with one to five substituents, provided at least one substituent is on either carbon adjacent to the carbon bonded to the C=X group, each independently selected from the group consisting of
- 25 halogen, -CN, -NO₂, C₁-C₆alkyl, C₃-C₆cycloalkyl, C₁-C₃haloalkyl, C₁-C₄alkoxy, C₁-C₃haloalkoxy, C₁-C₃alkylthio, C₁-C₃alkylsulfinyl, C₁-C₃alkylsulfonyl, C₃-C₄cycloalkylsulfanyl, C₃-C₄cycloalkylsulfinyl, C₃-C₄cycloalkylsulfonyl, C₁-C₃haloalkylthio, C₁-C₃haloalkylsulfinyl, C₁-C₃haloalkylsulfonyl;
- 30 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 selected from the group consisting of halogen, -CN, C₁-C₃alkyl and C₁-C₃haloalkyl;

or

R^2 is phenyl, pyridine, pyrimidine, pyrazine or pyridazine, wherein the phenyl, pyridine, pyrimidine, pyrazine or pyridazine is substituted with a total of one to three substituents, provided the substituent(s) are not on either carbon adjacent to the carbon bonded to the C=X group and at least one and up to two substituent(s) are independently selected from group A consisting of

C₄-alkyl, C₃-C₄cycloalkyl, wherein the C₃-C₄cycloalkyl is optionally substituted with -CN or halogen, C₁-C₄alkylthio, C₁-C₃alkylsulfinyl, C₁-C₃alkylsulfonyl, C₃-C₄cycloalkylsulfonyl, C₃-C₄cycloalkylsulfinyl, C₃-C₄cycloalkylsulfonyl, C₁-C₃haloalkylsulfinyl, C₁-C₃haloalkylsulfonyl;

and phenylsulfonyl wherein the phenyl is optionally substituted with one to two substituents selected from the group consisting of halogen, -CN, C₁-C₃alkyl and C₁-C₃haloalkyl;

phenylsulfinyl wherein the phenyl is optionally substituted with one to two substituents selected from the group consisting of halogen, -CN, C₁-C₃alkyl and C₁-C₃haloalkyl;

phenylsulfonyl wherein the phenyl is optionally substituted with one to two substituents selected from the group consisting of halogen, -CN, C₁-C₃alkyl and C₁-C₃haloalkyl;

-NHCO-phenyl, wherein the phenyl is optionally substituted with one to two substituents selected from the group consisting of halogen, CN, C₁-C₆alkyl and C₁-C₃haloalkyl;

-NHCO-C₁-C₃alkyl, -NHCO-C₃-C₄cycloalkyl, -NHSO₂-phenyl;

-CONH(C₃-C₄cycloalkyl), -CON(C₁-C₃alkyl)(C₃-C₄cycloalkyl), -C(=NOC₁-C₃alkyl)-C₁-C₃alkyl;

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 selected from the group consisting of halogen, -CN, C₁-C₃alkyl, C₁-C₃haloalkyl and C₁-C₃haloalkoxy;

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

halogen, -CN, -NO₂, C₁-C₆alkyl, C₃-C₆cycloalkyl, C₁-C₃haloalkyl, C₁-C₄alkoxy, C₁-C₃haloalkoxy, C₁-C₃alkylthio, C₁-C₃alkylsulfinyl, C₁-C₃alkylsulfonyl, C₁-C₃haloalkylthio, C₁-C₃haloalkylsulfinyl, C₁-C₃haloalkylsulfonyl;

5

and phenyl and 5- to 6-membered heteroaryl, wherein the phenyl and 5- to 6-membered heteroaryl is optionally substituted with one to two substituents selected from the group consisting of halogen, -CN, C₁-C₃alkyl and C₁-C₃haloalkyl;

or

R²

10

is thiophene, furane, pyrazole, thiazole, isothiazole, oxazole or isoxazole each of which is optionally substituted by one to three substituents independently selected from the group consisting of

halogen, hydroxy, -CN, -NO₂, C₁-C₆alkyl, C₃-C₄cycloalkyl, C₁-C₃haloalkyl, C₁-C₄alkoxy, C₁-C₃haloalkoxy, C₁-C₃alkylthio, C₁-C₃alkylsulfinyl, C₁-C₃alkylsulfonyl, C₃-C₄cycloalkylsulfonyl, C₃-C₄cycloalkylsulfinyl, C₃-C₄cycloalkylsulfonyl, C₁-C₃haloalkylthio, C₁-C₃haloalkylsulfinyl, C₁-C₃haloalkylsulfonyl;

15

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 selected from the group consisting of halogen, -CN, C₁-C₃alkyl and C₁-C₃haloalkyl

or

R²

20

is C₁-C₆alkyl substituted with one substituent selected from the group consisting of

C₁-C₃alkoxy-, C₁-C₃haloalkoxy-, C₁-C₃alkylthio, C₁-C₃alkylsulfinyl, C₁-C₃alkylsulfonyl, C₁-C₃haloalkylthio, C₁-C₃haloalkylsulfinyl, C₁-C₃haloalkylsulfonyl;

and phenyl, wherein the phenyl is optionally substituted with one to two substituents, each independently selected from the group consisting of halogen, -CN, C₁-C₆alkyl, C₁-C₃haloalkyl and C₁-C₄alkoxy;

25

or

R²

is naphthyl optionally substituted by one to three substituents independently selected from the group consisting of

halogen, hydroxy, -CN, -NO₂, C₁-C₆alkyl, C₃-C₄cycloalkyl, C₁-C₃haloalkyl, C₁-C₄alkoxy, C₁-C₃haloalkoxy, C₁-C₃alkylthio, C₁-C₃alkylsulfinyl, C₁-C₃alkylsulfonyl, C₃-

C₄cycloalkylsulfanyl, C₃-C₄cycloalkylsulfinyl, C₃-C₄cycloalkylsulfonyl, C₁-C₃haloalkylthio, C₁-C₃haloalkylsulfinyl, C₁-C₃haloalkylsulfonyl;

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 selected from the group consisting of halogen, -CN, C₁-C₃alkyl and C₁-C₃haloalkyl

or

R² is a 9-membered or 10-membered heteroaryl, which is optionally substituted by one to three substituents independently selected from the group consisting of

halogen, hydroxy, -CN, -NO₂, C₁-C₆alkyl, C₃-C₄cycloalkyl, C₁-C₃haloalkyl, C₁-C₄alkoxy, C₁-C₃haloalkoxy, C₁-C₃alkylthio, C₁-C₃alkylsulfinyl, C₁-C₃alkylsulfonyl, C₃-C₄cycloalkylsulfanyl, C₃-C₄cycloalkylsulfinyl, C₃-C₄cycloalkylsulfonyl, C₁-C₃haloalkylthio, C₁-C₃haloalkylsulfinyl, C₁-C₃haloalkylsulfonyl;

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 selected from the group consisting of halogen, -CN, C₁-C₃alkyl and C₁-C₃haloalkyl;

R^{3a}, R^{3b} are independently selected from the group consisting of hydrogen; C₁-C₆alkyl optionally substituted by one to three substituents independently selected from the group consisting of C₁-C₆alkyl, C₃-C₆cycloalkyl, C₁-C₃haloalkyl, C₁-C₄alkoxy, C₁-C₃haloalkoxy, C₁-C₃alkylthio, C₁-C₃alkylsulfinyl, C₁-C₃alkylsulfonyl, C₁-C₃haloalkylthio, C₁-C₃haloalkylsulfinyl, and C₁-C₃haloalkylsulfonyl; C₃-C₆cycloalkyl; C₁-C₆haloalkyl; C₂-C₆alkenyl; C₂-C₆haloalkenyl; C₂-C₆alkynyl; C₂-C₆haloalkynyl; benzyl wherein the phenyl substituent is optionally substituted with one to three substituents independently selected from the group consisting of halogen, -CN, -NO₂, C₁-C₆alkyl, C₁-C₃haloalkyl, C₁-C₄alkoxy, and C₁-C₄haloalkoxy; or heterocyclyl-C₁-C₆alkyl wherein the heterocyclyl substituent is selected from the group consisting of 4 - to 10-membered heterocyclyl, 5-membered heteroaryl and 6-membered heteroaryl, each of which is optionally substituted by one to three substituents independently selected from the group consisting of halogen, -CN, -NO₂, C₁-C₆alkyl, C₁-C₃haloalkyl, and C₁-C₄alkoxy; or phenyl optionally substituted with one substituent selected from the group consisting of halogen, -CN, -NO₂, C₁-C₆alkyl, C₁-C₃haloalkyl and C₁-C₄alkoxy;

or

- R^{3a}, R^{3b} form together with the carbon to which they are connected a cyclopropane, cyclobutane, oxetane or tetrahydropyran ring optionally substituted with one to two substituents, each independently selected from the group consisting of halogen, -CN, C₁-C₆alkyl, C₁-C₃haloalkyl and C₁-C₄alkoxy;
- 5 R⁴ is pyridine, pyrimidine, pyrazine, pyridazine or thiazole, wherein (A) the pyridine, pyrimidine, pyrazine or pyridazine is optionally substituted with one to three substituents selected from the group consisting of halogen, -CN, -NH₂, -NO₂, -COOH, -CONH₂, -CSNH₂, -CO₂-C₁-C₃alkyl, C₁-C₆alkyl, C₃-C₆cycloalkyl, C₁-C₃haloalkyl, C₁-C₄alkoxy, C₁-C₃haloalkoxy, C₁-C₃alkylthio, C₁-C₃alkylsulfinyl, C₁-C₃alkylsulfonyl, C₁-C₃haloalkylthio, C₁-C₃haloalkylsulfinyl, C₁-C₃haloalkylsulfonyl, -NHCO-C₁-C₃alkyl, -NHCO-C₁-C₃haloalkyl, -NHCO-C₁-C₃cyanoalkyl, -NHCO-C₃-C₄cycloalkyl, wherein the cycloalkyl is optionally substituted with one to two substituents selected from the group consisting of fluorine, chlorine, -CN, C₁-C₆alkyl or C₁-C₄alkoxy; -NHCO-phenyl, wherein the phenyl is optionally substituted with one to two substituents selected from the group consisting of halogen, -CN, C₁-C₃alkyl, C₁-C₃haloalkyl, C₁-C₃alkoxy and C₁-C₃haloalkoxy; -NHSO₂-C₁-C₃alkyl, -NHSO₂-C₁-C₃haloalkyl, -CONH(C₁-C₃alkyl), -CON(C₁-C₃alkyl)₂, -CONH-SO₂-C₁-C₃alkyl, -CON(C₁-C₃alkyl)(C₃-C₆cycloalkyl), -CONH(C₁-C₃haloalkyl), -CONH(C₃-C₆cycloalkyl), -CONH(1-cyano-C₃-C₆cycloalkyl), -CONH-phenyl, wherein the phenyl is optionally substituted with one to two substituents selected from the group consisting of halogen, -CN, C₁-C₃alkyl, C₁-C₃haloalkyl, C₁-C₃alkoxy and C₁-C₃haloalkoxy;
- 10 and (B) the thiazole is optionally substituted with one to two substituents selected from the group consisting of halogen, -CN, -NO₂, C₁-C₆alkyl, C₃-C₆cycloalkyl, C₁-C₃haloalkyl, C₁-C₄alkoxy, C₁-C₃haloalkoxy, C₁-C₃alkylthio, C₁-C₃alkylsulfinyl, C₁-C₃alkylsulfonyl, C₁-C₃haloalkylthio, C₁-C₃haloalkylsulfinyl and C₁-C₃haloalkylsulfonyl;
- 15 R⁵ is hydrogen, halogen, -CN, C₁-C₃alkyl, C₁-C₃haloalkyl, C₃-C₄cycloalkyl, or C₁-C₃alkoxy.
- 20 4. Compound according to any of Claims 1 to 3, in which
- X is O or S;
- Q¹ and Q² are independently CR⁵ or N, provided at least one of Q¹ and Q² is N;
- Y is a direct bond or CH₂;
- 30 R¹ is hydrogen; C₁-C₃alkyl optionally substituted with -CN, -Si(CH₃)₃ or one to three substituents selected from the group consisting of fluorine, chlorine or bromine; C₂-C₄alkenyl; C₂-C₄alkynyl; C₃-C₄cycloalkyl-C₁-C₂alkyl- wherein the C₃-C₄cycloalkyl 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 substituted with one to three substituents, provided at least one substituent is 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, -NO₂, methyl, cyclopropyl, difluoromethyl, trifluoromethyl, methoxy, trifluoromethoxy, difluoromethoxy, methylthio, methylsulfinyl, methylsulfonyl, ethylthio, ethylsulfinyl, ethylsulfonyl, isopropylthio, isopropylsulfinyl, isopropylsulfonyl, cyclopropylthio, cyclopropylsulfinyl, cyclopropylsulfonyl, difluoromethylthio, difluoromethylsulfinyl, difluoromethylsulfonyl, trifluoromethylthio, trifluoromethylsulfinyl, trifluoromethylsulfonyl,

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

or

R^2 is phenyl or pyridine, wherein the phenyl or pyridine is substituted with a total of one to three substituents, provided the substituent(s) are not on either carbon adjacent to the carbon bonded to the C=X group and one substituent is independently selected from group A consisting of

tert-butyl, cyclopropyl, 1-cyanocyclopropyl, methylthio, methylsulfinyl, methylsulfonyl, ethylthio, ethylsulfinyl, ethylsulfonyl, isopropylthio, isopropylsulfinyl, isopropylsulfonyl, tert-butylthio, tert-butylsulfinyl, tert-butylsulfonyl, cyclopropylthio, cyclopropylsulfinyl, cyclopropylsulfonyl, difluoromethylsulfinyl, difluoromethylsulfonyl, trifluoromethylsulfinyl, trifluoromethylsulfonyl, trifluoroethylsulfinyl, trifluoroethylsulfonyl;

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

-NHCO-phenyl wherein the phenyl is optionally substituted with one to two substituents selected from the group consisting of fluorine, chlorine, CN, methyl and trifluoromethyl;

(cyclopropylamino)carbonyl, 1-(methoxyimino)ethyl, acetamido,
(cyclopropylcarbonyl)amino, (phenylsulfonyl)amino;

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

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

10 fluorine, chlorine, bromine, -CN, -NO₂, methyl, cyclopropyl, difluoromethyl, trifluoromethyl, methoxy, trifluoromethoxy, difluoromethoxy, methylthio, methylsulfinyl, methylsulfonyl, difluoromethylthio, difluoromethylsulfinyl, difluoromethylsulfonyl, trifluoromethylthio, trifluoromethylsulfinyl, trifluoromethylsulfonyl

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

or

R² is thiophene, furane, pyrazole, thiazole, oxazole or isoxazole each of which is optionally substituted by one to three substituents independently selected from the group consisting of of

20 fluorine, chlorine, bromine, -CN, -NO₂, methyl, cyclopropyl, difluoromethyl, trifluoromethyl, methoxy, trifluoromethoxy, difluoromethoxy, methylthio, methylsulfinyl, methylsulfonyl, difluoromethylthio, difluoromethylsulfinyl, difluoromethylsulfonyl, trifluoromethylthio, trifluoromethylsulfinyl, trifluoromethylsulfonyl

25 and phenyl, wherein the phenyl is optionally substituted with one two substituents selected from the group consisting of fluorine, chlorine, bromine, -CN, difluoromethyl and trifluoromethyl

or

R² is C₁-C₃alkyl substituted with one substituent selected from the group consisting of

methoxy, trifluoromethoxy, difluoromethoxy, methylthio, methylsulfinyl, methylsulfonyl, difluoromethylthio, difluoromethylsulfinyl, difluoromethylsulfonyl, trifluoromethylthio, trifluoromethylsulfinyl, trifluoromethylsulfonyl

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

or

R^2 is naphthyl; or pyrazolo[1.5-a]pyridin-2-yl, optionally substituted with trifluoromethyl or chlorine;

10 R^{3a}, R^{3b} are independently selected from the group consisting of hydrogen; C_1 - C_3 alkyl optionally substituted by one to three substituents independently selected from the group consisting of methyl, ethyl, iso-propyl, n-propyl, cyclopropyl, cyclobutyl, difluoromethyl, trifluoromethyl, methoxy, ethoxy, difluoromethoxy, trifluoromethoxy, methylthio, methylsulfinyl, methylsulfonyl, trifluoromethylthio, trifluoromethylsulfinyl, and
15 trifluoromethylsulfonyl; cyclopropyl, difluoromethyl, trifluoromethyl, difluoromethyl, trifluoromethyl, 2,2-difluoroethyl, 2,2,2-trifluoroethyl, ethinyl, 2-propen-1-yl and 2-propin-1-yl; benzyl wherein the phenyl substituent is optionally substituted with one to three substituents independently selected from the group consisting of fluorine, chlorine, bromine, -CN, NO_2 , methyl, trifluoromethyl and methoxy; heterocyclyl-methyl wherein
20 the heterocyclyl substituent is selected from the group consisting of 4 - to 10-membered heterocyclyl, 5-membered heteroaryl and 6-membered heteroaryl, each of which is optionally substituted by one to three substituents independently selected from the group consisting of fluorine, chlorine, bromine, -CN, - NO_2 , methyl, trifluoromethyl and methoxy; and phenyl optionally substituted with one substituent selected from the group consisting of
25 fluorine, chlorine, bromine, -CN, - NO_2 , methyl, trifluoromethyl and methoxy;

or

R^{3a}, R^{3b} form together with the carbon to which they are connected a cyclopropane, cyclobutane, oxetane or tetrahydropyran ring;

30 R^4 is pyridine, pyrimidine, pyrazine or thiazole, wherein (A) the pyridine, pyrimidine or pyrazine is optionally substituted with one to three substituents selected from the group consisting of fluorine, chlorine, bromine, -CN, - NH_2 , - NO_2 , -COOH, -CONH₂, -CSNH₂, -CO₂Me, methyl, ethyl, difluoromethyl, trifluoromethyl, pentafluoroethyl, cyclopropyl, methoxy, difluoromethoxy, trifluoromethoxy, methylthio, methylsulfinyl, methylsulfonyl,

5 difluoromethylthio, difluoromethylsulfinyl, difluoromethylsulfonyl, trifluoromethylthio, trifluoromethylsulfinyl, trifluoromethylsulfonyl, -NHCO-methyl, -NHCO-trifluoromethyl, -NHCO-CH₂CN, -NHCO-cyclopropyl, -NHCO-1-cyanocyclopropyl, -NHSO₂-methyl, -NHSO₂-trifluoromethyl, -NHCO-phenyl, wherein the phenyl is optionally substituted with one to two substituents selected from the group consisting of fluorine, chlorine, bromine, -CN, methyl, difluoromethyl, trifluoromethyl, methoxy, difluoromethoxy and trifluoromethoxy; -CONH-methyl, -CONH-SO₂-methyl, -CON-(N-methyl)-N-cyclopropyl, -CONH-difluoroethyl, -CONH-trifluoroethyl, -CONH-cyclopropyl, -CONH-1-cyanocyclopropyl, -CONH-phenyl, wherein the phenyl is optionally substituted with one to two substituents selected from the group consisting of fluorine, chlorine, bromine, -CN, methyl, difluoromethyl, trifluoromethyl, methoxy, difluoromethoxy and trifluoromethoxy;

15 and (B) the thiazole is optionally substituted with one to two substituents selected from the group consisting of fluorine, chlorine, bromine, -CN, -NO₂, methyl, ethyl, difluoromethyl, trifluoromethyl, pentafluoroethyl, cyclopropyl, methoxy, difluoromethoxy, trifluoromethoxy, methylthio, methylsulfinyl, methylsulfonyl, difluoromethylthio, difluoromethylsulfinyl, difluoromethylsulfonyl, trifluoromethylthio, trifluoromethylsulfinyl and trifluoromethylsulfonyl;

R⁵ is hydrogen, fluorine, chlorine, bromine, -CN, methyl, ethyl, iso-propyl, difluoromethyl, trifluoromethyl, cyclopropyl, methoxy, or ethoxy.

20 5. Compound according to any of Claims 1 to 4, in which

X is O or S;

Q¹ is N

Q² is CR⁵

Y is a direct bond or CH₂;

25 R¹ is hydrogen, methyl, ethyl, 2-(trimethylsilyl)ethyl, 2,2-difluoroethyl, 2,2,2-trifluoroethyl, 3,3,3-trifluoropropyl, or cyclopropyl-CH₂-;

30 R² 3-chloro-2-fluoro-5-(trifluoromethyl)phenyl, 3-chloro-5-(methylsulfonyl)phenyl, 3-methylsulfonyl-5-(trifluoromethyl)phenyl, 5-(methylsulfonyl)pyridin-3-yl, 3-(methylsulfonyl)phenyl, 3-(trifluoromethylsulfonyl)phenyl, 5-[(trifluoromethyl)sulfonyl]pyridin-3-yl, 3-chloro-5-[(cyclopropylamino)carbonyl]phenyl, 3-cyclopropyl-5-(trifluoromethyl)phenyl, 2,3,5-trichlorophenyl, 3-phenyl-5-

(trifluoromethyl)phenyl, [3-chloro-5-(trifluoromethyl)phenyl]methyl, 3-(4-fluorophenyl)-5-(trifluoromethyl)phenyl, 2-chlorophenyl, 2,5-dichlorophenyl, 2,3,4-trichlorophenyl, 2,3-dichlorophenyl, 2,4-dichlorophenyl, 2,6-difluorophenyl, 3-fluoro-5-(trifluoromethylsulfonyl)phenyl, 3-chloro-5-(trifluoromethylsulfonyl)phenyl, 5-chloro-3-thienyl, 3,4,5-trichloro-2-thienyl, 2,5-dichloro-3-thienyl, 4,5-dichloro-2-thienyl, 1-methyl-5-(trifluoromethyl)-1H-pyrazol-3-yl, 4-chloro-1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl, 5-methyl-1,2-oxazol-3-yl, 5-cyclopropyl-1,2-oxazol-3-yl, 3-chloro-1,2-oxazol-5-yl, 2-chloro-1,3-thiazol-5-yl, 1-methyl-1H-pyrazol-4-yl, 5-chloro-1-methyl-1H-pyrazol-4-yl, 3-chloro-5-cyclopropylsulfonylphenyl, 3-chloro-5-(4-fluorophenyl)sulfonylphenyl, 3-chloro-5-ethylsulfonylphenyl, 3-cyclopropyl-5-fluorophenyl, 3-chloro-5-(isopropylthio)phenyl, 3-chloro-5-(1H-pyrazol-1-yl)phenyl, 3-chloro-5-(1H-1,2,4-triazol-1-yl)phenyl, 3-tert-butyl-5-chlorophenyl, 3-tert-butyl-5-bromophenyl, 3-fluoro-5-cyclopropylphenyl, 3-chloro-5-cyclopropylphenyl, 3-chloro-5-isopropylsulfonylphenyl, 1-(4-fluorophenyl)-3-(trifluoromethyl)-1H-pyrazol-5-yl, 3-cyclopropyl-5-(trifluoromethoxy)phenyl, 4-(trifluoromethylsulfonyl)phenyl, 3-chloro-5-[1-(methoxyimino)ethyl]phenyl, 3-(tert-butylthio)-5-chlorophenyl, 1-(4-fluorophenyl)-1H-pyrazol-4-yl, 1-(4-fluorophenyl)-5-(trifluoromethyl)-1H-pyrazol-3-yl, 5-[4-(trifluoromethoxy)phenyl]pyridin-3-yl, 3-chloro-5-methylsulfonylphenyl, 3-chloro-5-methylsulfinylphenyl, 3-benzamido-5-chlorophenyl, 3-(tert-butylsulfonyl)-5-chlorophenyl, 5-[4-(trifluoromethyl)phenyl]-pyridin-3-yl, 5-[4-(trifluoromethoxy)phenyl]-pyridin-3-yl, 5-(4-chlorophenyl)pyridin-3-yl, 5-(4-fluorophenyl)pyridin-3-yl, 3-chloro-5-[(phenylsulfonyl)amino]phenyl, 3-acetamido-5-chlorophenyl, 3-chloro-5-[(cyclopropylcarbonyl)amino]phenyl, 3-chloro-5-[(2,2,2-trifluoroethyl)sulfinyl]phenyl, 3-chloro-5-[(2,2,2-trifluoroethyl)sulfonyl]phenyl, 3-chloro-5-[3-(trifluoromethyl)-1H-pyrazol-1-yl]phenyl, 3,5-bis(methylsulfonyl)phenyl, pyrazolo[1,5-a]pyridin-2-yl, 7-(trifluoromethyl)pyrazolo[1,5-a]pyridin-2-yl, 6-chloropyrazolo[1,5-a]pyridin-2-yl, naphth-2-yl, 3-[4'-(trifluoromethoxy)phenyl]-phenyl, 3-(4'-fluorophenyl)-5-(trifluoromethyl)phenyl or 3-chloro-5-(1-cyanocyclopropyl)phenyl;

R^{3a} is hydrogen, methyl or methoxymethyl;

R^{3b} is methyl or methoxymethyl if R^{3a} is hydrogen;

30 R^{3b} is hydrogen if R^{3a} is methyl or methoxymethyl;

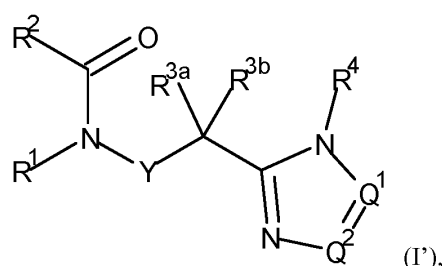
R^{3a} and R^{3b} form together with the carbon to which they are connected a cyclopropane ring;

R⁴ is pyridin-2-yl, pyrimidin-2-yl, pyrimidin-4-yl, 5-fluoropyrimidin-2-yl, 5-chloropyrimidin-2-yl, 5-cyanopyrimidin-2-yl, 5-(trifluoromethyl)pyrimidin-2-yl, 5-methylpyrimidin-2-yl, 5-fluoropyridin-2-yl, 5-chloropyridin-2-yl, 2-chloropyridin-4-yl, 5-cyanopyridin-2-yl, 4-

cyano-pyridin-2-yl, 6-cyano-pyridin-2-yl, 5-methoxy-pyridin-2-yl, 5-(trifluoromethyl)-pyridin-2-yl, 5-(difluoromethoxy)pyridin-2-yl, 5-(trifluoromethylthio)pyridin-2-yl, 5-nitropyridin-2-yl, 5-aminopyridin-2-yl, 3,5-difluoropyridin-2-yl, 5-chloro-3-fluoropyridin-2-yl, pyridin-2-yl-5-carboxylic acid, methyl pyridin-2-yl-5-carboxylate, N-methyl-pyridin-2-yl-5-carboxamide, N-cyclopropyl-pyridin-2-yl-5-carboxamide, N-cyclopropyl-N-methyl-pyridin-2-yl-5-carboxamide, N-(1-cyanocyclopropyl)-pyridin-2-yl-5-carboxamide, N-(2,2-difluoroethyl)-pyridin-2-yl-5-carboxamide, N-(2,2,2-trifluoroethyl)-pyridin-2-yl-5-carboxamide, N-methylsulfonyl-pyridin-2-yl-5-carboxamide, N-(4-fluorophenyl)-pyridin-2-yl-5-carboxamide, 5-acetamidopyridin-2-yl, 5-(trifluoroacetamido)-pyridin-2-yl, 5-(2-cyanoacetyl-amino)-pyridin-2-yl, 5-[(cyclopropylcarbonyl)amino]pyridin-2-yl, 5-[(1-cyanocyclopropylcarbonyl)amino]-pyridin-2-yl, 5-(methanesulfonamido)-pyridin-2-yl, 5-(trifluoromethylsulfonamido)-pyridin-2-yl, 5-[(4-fluorobenzoyl)amino]pyridine-2-yl pyrazin-2-yl, 2-cyano-pyrazin-5-yl, or 1,3-thiazol-2-yl;

R⁵ is hydrogen, methyl or trifluoromethyl.

6. Compound according to any of Claims 1 to 5, characterized in that it has a structure according to formula (I')

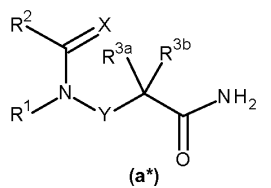


in which the structural elements Y, Q¹, Q², R¹, R², R^{3a}, R^{3b}, R⁴ and R⁵ have the meanings given in Claim 1 or the meanings given in Claim 2 or the meanings given in Claim 3 or the meanings given in Claim 4 or the meanings given in Claim 5.

7. Compound according to any of Claims 1 to 6, in which Q¹ represents N or CR⁵ and Q² represents N and all further structural elements Y, R¹, R², R^{3a}, R^{3b}, R⁴ and R⁵ have the meanings given in Claim 1 or the meanings given in Claim 2 or the meanings given in Claim 3 or the meanings given in Claim 4 or the meanings given in Claim 5.

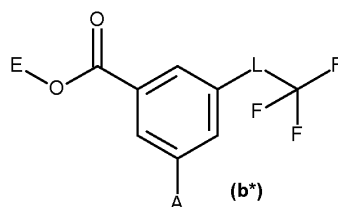
8. Compound according to any of Claims 1 to 6, in Q¹ represents N and Q² represents CR⁵ and all further structural elements Y, R¹, R², R^{3a}, R^{3b}, R⁴ and R⁵ have the meanings given in Claim 1 or the meanings given in Claim 2 or the meanings given in Claim 3 or the meanings given in Claim 4 or the meanings given in Claim 5.

9. Compound of the formula (a*)



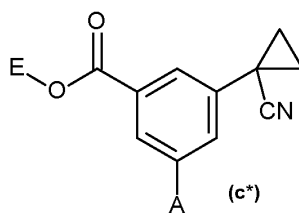
- 5 in which the structural elements Y, R¹, R², R^{3a} and R^{3b} have the meanings given in Claim 1 or the meanings given in Claim 2 or the meanings given in Claim 3 or the meanings given in Claim 4 or the meanings given in Claim 5.

10. Compound of the formula (b*), in which



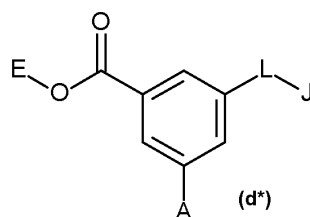
- E is hydrogen or C₁-C₆alkyl;
 A is -CN, chlorine or fluorine;
 10 L is S, SO or SO₂.

11. Compound of the formula (c*), in which



- E is hydrogen or C₁-C₆alkyl;
 A is bromine, chlorine, fluorine, -CN or trifluoromethyl, preferably chlorine.
 15 12. Compound of the formula (d*), in which

- 235 -



- E is hydrogen or C₁-C₆alkyl;
- A is bromine, chlorine or fluorine, preferably chlorine;
- L is S, SO or SO₂, preferably S or SO₂, more preferably SO₂;
- 5 J is ethyl, iso-propyl, tert-butyl, cyclopropyl, 2,2,2-trifluoroethyl or 4-fluorophenyl;
- and wherein the compound of formula (d*) is not 3-(ethylsulfanyl)-5-fluorobenzoic acid or 3-(tert-butylsulfanyl)-5-fluorobenzoic acid.
13. A compound which is selected from 3-cyclopropyl-5-(trifluoromethoxy)benzoic acid and methyl 3-cyclopropyl-5-(trifluoromethoxy)benzoate.
- 10 14. Formulation, especially agrochemical formulation, comprising at least one compound of the formula (I) according to any of Claims 1 to 8.
15. Formulation according to Claim 14, further comprising at least one extender and/or at least one surface-active substance.
16. Formulation according to Claim 14 or 15, characterized in that the compound of the
15 formula (I) is in a mixture with at least one further active compound.
17. Method for controlling pests, especially animal pests, characterized in that a compound of the formula (I) according to any of Claims 1 to 8 or a formulation according to any of Claims 14 to 16 is allowed to act on the pests and/or their habitat.
18. Method according to Claim 17, characterized in that the pest is an animal pest and
20 comprises an insect, an arachnid or a nematode, or in that the pest is an insect, an arachnid or a nematode.
19. Use of a compound of the formula (I) according to any of Claims 1 to 8 or of a formulation according to any of Claims 14 to 16 for controlling animal pests.

20. Use according to Claim 19, characterized in that the animal pest comprises an insect, an arachnid or a nematode, or in that the animal pest is an insect, an arachnid or a nematode.
21. Use according to Claim 19 or 20 in crop protection.
22. Use according to Claim 19 or 20 in the field of animal health.
- 5 23. Method for protecting seed or a germinating plant from pests, especially animal pests, comprising a method step in which the seed is contacted with a compound of the formula (I) according to any of Claims 1 to 8 or with a formulation according to any of Claims 14 to 16.
24. Seed obtained by a method according to Claim 23.