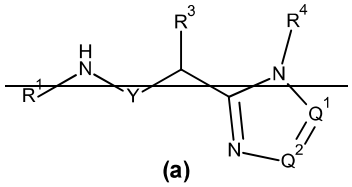
Claims:

1. Compound of the formula (**a**)



(a)

wherein

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^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, SO_2NH_2, $CONH_2$, $CSNH_2$, NO_2, SF_5, NH_2;

and in each case optionally substituted C_1-C_6alkyl, C_3-C_6cycloalkyl, C_1-C_6haloalkyl, C_1-C_6alkoxy, C_1-C_6haloalkoxy, 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_6haloalkylthio, C_1-C_6haloalkylsulfinyl, C_1-C_6haloalkylsulfonyl, $NH(C_1$-C_6alkyl), $N(C_1$-C_6alkyl)$_2$, NHCO-C_1-C_6alkyl, $N(C_1$-C_6alkyl)CO-C_1-C_6alkyl, CO_2C_1-C_6alkyl, $CONH(C_1$-C_6alkyl), $CON(C_1$-C_6alkyl)$_2$, $C(=NOC_1$-C_6alkyl)H, $C(=NOC_1$-C_6alkyl)-C_1-C_6alkyl, phenyl and 5- to 6-membered heteroaryl;

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 substituent(s), provided at least one and up to three substituent(s) are independently selected from group A consisting of

-CN, -COOH, $-SO_2NH_2$, $-CONH_2$, $-CSNH_2$, $-NO_2$, $-SF_5$, $-NH_2$, substituted C_3-C_4cycloalkyl;

and C_1-C_3alkyl and C_1-C_3alkoxy, both substituted by one to three substituents independently selected from the group consisting of $-NH_2$, -OH, $-NO_2$, -CN, -SH, CO_2C_1-C_4alkyl, $-CONH_2$, $-SF_5$, $-SO_2NH_2$, C_3-C_4cycloalkyl, C_2-C_4alkenyl, C_5-C_6cycloalkenyl, C_2-C_4alkynyl, $-NH(C_1$-C_6alkyl), $-N(C_1$-C_6alkyl)$_2$, *N*-C_1-C_4alkanoylamino, C_1-C_4alkoxy, C_1-C_4haloalkoxy, C_2-C_4alkenyloxy, C_2-C_4alkynyloxy, C_3-C_4cycloalkoxy, C_5-C_6cycloalkenyloxy, C_1-C_4alkoxycarbonyl, C_2-C_4alkenyloxycarbonyl, C_2-C_4alkynyloxycarbonyl, C_6-,C_{10}-,C_{14}-aryloxycarbonyl, C_1-C_4alkanoyl, C_2-C_4alkenylcarbonyl, C_2-C_4alkynylcarbonyl, C_6-,C_{10}-,C_{14}-arylcarbonyl, C_1-C_4alkylthio, C_1-C_4haloalkylthio, C_3-C_4cycloalkylthio, C_2-C_4alkenylthio, C_5-C_6cycloalkenylthio, C_2-C_4alkynylthio, C_1-C_4alkylsulfinyl, C_1-C_4haloalkylsulfinyl, C_1-C_4alkylsulfonyl, C_1-C_4haloalkylsulfonyl, $-SO_2$-$NH(C_1$-C_6alkyl), $-SO_2$-$N(C_1$-C_6alkyl)$_2$, C_1-C_4alkylphosphinyl, C_1-C_4alkylphosphonyl, *N*-C_1-C_4alkylaminocarbonyl, *N,N*-di-C_1-C_4alkylaminocarbonyl, *N*-C_1-C_4alkanoylaminocarbonyl, *N*-C_1-C_4alkanoyl-N-C_1-C_4alkylaminocarbonyl, C_6-,C_{10}-,C_{14}-aryl, C_6-,C_{10}-,C_{14}-aryloxy, benzyl, benzyloxy, benzylthio, C_6-,C_{10}-,C_{14}-arylthio, C_6-,C_{10}-,C_{14}-arylamino, benzylamino, heterocyclyl, heteroaryl and trialkylsilyl, and substituents bonded via a double bond, such as C_1-C_4alkylidene (e.g. methylidene or ethylidene), an oxo group, an imino group and a substituted imino group;

and in each case optionally substituted $-CO_2$-C_1-C_6alkyl, C_5-C_6cycloalkyl, C_4-C_6alkyl, C_4-C_6haloalkyl, C_4-C_6alkoxy, C_1-C_6haloalkoxy, 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_6haloalkylthio, C_1-C_6haloalkylsulfinyl, C_1-C_6haloalkylsulfonyl, C_2-C_4alkenylsulfanyl, C_2-C_4alkenylsulfinyl, C_2-C_4alkenylsulfonyl, C_2-C_4alkinylsulfanyl, C_2-C_4alkinylsulfinyl, C_2-C_4alkinylsulfonyl, phenylsulfanyl, phenylsulfinyl, phenylsulfonyl, S-C_1-C_6alkylsulfinimidoyl, S-C_3-C_6cycloalkylsulfinimidoyl, S-C_2-C_6alkenylsulfinimidoyl, S-C_2-C_6alkinylsulfinimidoyl, S-phenylsulfinimidoyl, S-C_1-C_6alkylsulfonimidoyl, S-C_3-C_6cycloalkylsulfonimidoyl, S-C_2-C_6alkenylsulfonimidoyl, S-C_2-C_6alkinylsulfonimidoyl, S-phenylsulfonimidoyl, $-NH(C_1$-C_6alkyl), $-N(C_1$-C_6alkyl)$_2$, -NHCO-C_1-C_6alkyl, $-N(C_1$-C_6alkyl)CO-C_1-C_6alkyl, $-N(C_3$-C_6cycloalkyl)CO-C_1-

~~C_6alkyl, -NHCO-C_3-C_6cycloalkyl, -NHCO-C_1-C_6alkyl-C_3-C_6cycloalkyl, N(C_1-C_6alkyl)CO-(C_3-C_6cycloalkyl), N(C_3-C_6cycloalkyl)CO-(C_3-C_6cycloalkyl), N(C_1-C_6alkyl)CO-phenyl, N(C_3-C_6cycloalkyl)CO-phenyl, -NHCO-phenyl, -N(CO-C_1-C_6alkyl)$_2$, N(CO-C_3-C_6cycloalkyl)$_2$, N(CO-phenyl)$_2$, N(CO-C_3-C_6cycloalkyl)(CO-C_1-C_6alkyl), N(CO-C_3-C_6cycloalkyl)(CO-phenyl), N(CO-C_1-C_6alkyl)(CO-phenyl), -CONH(C_1-C_6alkyl), -CON(C_1-C_6alkyl)$_2$, -CONH(C_3-C_6cycloalkyl), -CON(C_1-C_6alkyl)(C_3-C_6cycloalkyl), -CON(C_3-C_6cycloalkyl)$_2$, -CONH-SO_2-C_1-C_6alkyl, -CONH-SO_2-phenyl, -CONH-SO_2-(C_3-C_6cycloalkyl), -CON(C_1-C_6alkyl)-SO_2-C_1-C_6alkyl, -CON(C_1-C_6alkyl)-SO_2-phenyl, -CON(C_1-C_6alkyl)-SO_2-(C_3-C_6cycloalkyl), -CONH-phenyl, -CON(C_1-C_6alkyl)phenyl, -CON(C_3-C_6cycloalkyl)phenyl, N(SO_2C_1-C_6alkyl)$_2$, N(SO_2C_1-C_6haloalkyl)$_2$, N(SO_2C_3-C_6cycloalkyl)$_2$, N(SO_2C_1-C_6alkyl)SO_2-phenyl, N(SO_2C_3-C_6cycloalkyl)SO_2-phenyl, -NHSO$_2$-C_1-C_6alkyl, -NHSO$_2$-C_1-C_6haloalkyl, N(C_1-C_6alkyl)SO$_2$-C_1-C_6alkyl, N(C_3-C_6cycloalkyl)SO$_2$-C_1-C_6alkyl, -NHSO$_2$-phenyl, -N(C_1-C_6alkyl)SO$_2$-phenyl, -N(C_3-C_6cycloalkyl)SO$_2$-phenyl, NHSO$_2$-C_3-C_6cycloalkyl, N(C_1-C_6alkyl)SO$_2$-(C_3-C_6cycloalkyl), N(C_3-C_6cycloalkyl)SO$_2$-(C_3-C_6cycloalkyl), -SO$_2$NH(C_1-C_6alkyl), -SO$_2$N(C_1-C_6alkyl)$_2$, -SO$_2$N(C_1-C_6alkyl)(C_3-C_6cycloalkyl), -SO$_2$NH(C_3-C_6cycloalkyl), -SO$_2$N(C_3-C_6cycloalkyl)$_2$, -SO$_2$NH(phenyl), -SO$_2$N(C_1-C_6alkyl)(phenyl), -SO$_2$N(C_1-C_4cycloalkyl)(phenyl), -NHCS-C_1-C_6alkyl, N(C_1-C_6alkyl)CS-C_1-C_6alkyl, N(C_3-C_6cycloalkyl)CS-C_1-C_6alkyl, -NHCS-C_3-C_6cycloalkyl, -N(C_1-C_6alkyl)CS-(C_3-C_6cycloalkyl), N(C_3-C_6cycloalkyl)CS-(C_3-C_6cycloalkyl), N(C_1-C_6alkyl)CS-phenyl, -N(C_3-C_6cycloalkyl)CS-phenyl, -NHCS-phenyl, -CSNH(C_1-C_6alkyl), -CSN(C_1-C_6alkyl)$_2$, CSNH(C_3-C_6cycloalkyl), CSN(C_1-C_6alkyl)(C_3-C_6cycloalkyl), CSN(C_3-C_6cycloalkyl)$_2$, -CSNH-phenyl, -CSN(C_1-C_6alkyl)phenyl, -CSN(C_3-C_6cycloalkyl)phenyl, -C(=NOC_1-C_6alkyl)H, -C(=NOC_1-C_6alkyl)-C_1-C_6alkyl, phenyl and 5- to 6-membered heteroaryl;~~

~~and 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$_2$;~~

~~and in each case optionally substituted C_1-C_6alkyl, C_3-C_6cycloalkyl, C_1-C_6haloalkyl, C_1-C_6alkoxy, C_1-C_6haloalkoxy, C_1-C_6alkylthio, C_1-C_6alkylsulfinyl, C_1-C_6alkylsulfonyl, C_1-C_6haloalkylthio, C_1-C_6haloalkylsulfinyl, C_1-C_6haloalkylsulfonyl, -NH(C_1-C_6alkyl), N(C_1-C_6alkyl)$_2$, -NHCO-C_1-C_6alkyl, -N(C_1-C_6alkyl)CO-C_1-C_6alkyl, -CO_2C_1-C_6alkyl, -CONH(C_1-C_6alkyl), -CON(C_1-C_6alkyl)$_2$, -C(=NOC_1-C_6alkyl)H, -C(=NOC_1-C_6alkyl)-C_1-C_6alkyl, phenyl and 5- to 6-membered heteroaryl;~~

~~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, $-CONH_2$, $-CSNH_2$, $-SO_2NH_2$, $-NO_2$, $-SF_5$, $-NH_2$;~~

~~and in each case optionally substituted CO_2-C_1-C_6alkyl, C_1-C_6alkyl, C_3-C_6cycloalkyl, C_1-C_6haloalkyl, C_1-C_6alkoxy, C_1-C_6haloalkoxy, 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_6haloalkylthio, C_1-C_6haloalkylsulfinyl, C_1-C_6haloalkylsulfonyl, C_2-C_4alkenylsulfanyl, C_2-C_4alkenylsulfinyl, C_2-C_4alkenylsulfonyl, C_2-C_4alkinylsulfanyl, C_2-C_4alkinylsulfinyl, C_2-C_4alkinylsulfonyl, phenylsulfanyl, phenylsulfinyl, phenylsulfonyl, S-C_1-C_6alkylsulfinimidoyl, S-C_3-C_6cycloalkylsulfinimidoyl, S-C_2-C_6alkenylsulfinimidoyl, S-C_2-C_6alkinylsulfinimidoyl, S-phenylsulfinimidoyl, S-C_1-C_6alkylsulfonimidoyl, S-C_3-C_6cycloalkylsulfonimidoyl, S-C_2-C_6alkenylsulfonimidoyl, S-C_2-C_6alkinylsulfonimidoyl, S-phenylsulfonimidoyl, $-NH(C_1$-C_6alkyl), $-N(C_1$-C_6alkyl)$_2$, -NHCO-C_1-C_6alkyl, $-N(C_1$-C_6alkyl)CO-C_1-C_6alkyl, $-N(C_3$-C_6cycloalkyl)CO-C_1-C_6alkyl, -NHCO-C_3-C_6cycloalkyl, $-N(C_1$-C_6alkyl)CO-(C_3-C_6cycloalkyl), $N(C_3$-C_6cycloalkyl)CO-(C_3-C_6cycloalkyl), $N(C_1$-C_6alkyl)CO-phenyl, $N(C_3$-C_6cycloalkyl)CO-phenyl, -NHCO-phenyl, $-N(CO$-C_1-C_6alkyl)$_2$, $-N(CO$-C_3-C_6cycloalkyl)$_2$, $-N(CO$-phenyl)$_2$, $N(CO$-C_3-C_6cycloalkyl)(CO-C_1-C_6alkyl), $-N(CO$-C_3-C_6cycloalkyl)(CO-phenyl), $N(CO$-C_1-C_6alkyl)(CO-phenyl), $-CONH(C_1$-C_6alkyl), $-CON(C_1$-C_6alkyl)$_2$, $-CONH(C_3$-C_6cycloalkyl), $-CON(C_1$-C_6alkyl)(C_3-C_6cycloalkyl), $-CON(C_3$-C_6cycloalkyl)$_2$, -CONH-SO_2-C_1-C_6alkyl, -CONH-SO_2-phenyl, -CONH-SO_2-(C_3-C_6cycloalkyl), $-CON(C_1$-C_6alkyl)-SO_2-C_1-C_6alkyl, $-CON(C_1$-C_6alkyl)-SO_2-phenyl, $-CON(C_1$-C_6alkyl)-SO_2-(C_3-C_6cycloalkyl), -CONH-phenyl, $-CON(C_1$-C_6alkyl)phenyl, $-CON(C_3$-C_6cycloalkyl)phenyl, $-N(SO_2C_1$-C_6alkyl)$_2$, $-N(SO_2C_1$-C_6haloalkyl)$_2$, $-N(SO_2C_3$-C_6cycloalkyl)$_2$, $-N(SO_2C_1$-C_6alkyl)SO_2-phenyl, $-N(SO_2C_3$-C_6cycloalkyl)SO_2-phenyl, $-NHSO_2$-C_1-C_6alkyl, $-NHSO_2$-C_1-C_6haloalkyl, $N(C_1$-C_6alkyl)SO_2-C_1-C_6alkyl, $-N(C_3$-C_6cycloalkyl)SO_2-C_1-C_6alkyl, $-NHSO_2$-phenyl, $N(C_1$-C_6alkyl)SO_2-phenyl, $-N(C_3$-C_6cycloalkyl)SO_2-phenyl, $-NHSO_2$-C_3-C_6cycloalkyl, $N(C_1$-C_6alkyl)SO_2-(C_3-C_6cycloalkyl), $N(C_3$-C_6cycloalkyl)SO_2-(C_3-C_6cycloalkyl), $-SO_2NH(C_1$-C_6alkyl), $-SO_2N(C_1$-C_6alkyl)$_2$, $-SO_2N(C_1$-C_6alkyl)(C_3-C_6cycloalkyl), $-SO_2NH(C_3$-C_6cycloalkyl), $-SO_2N(C_3$-C_6cycloalkyl)$_2$, $-SO_2NH$(phenyl), $-SO_2N(C_1$-C_6alkyl)(phenyl), $-SO_2N(C_1$-C_4cycloalkyl)(phenyl), -NHCS-C_1-C_6alkyl, $-N(C_1$-C_6alkyl)CS-C_1-C_6alkyl, $-N(C_3$-C_6cycloalkyl)CS-C_1-

~~C_6alkyl, -NHCS-C_3-C_6cycloalkyl, -N(C_1-C_6alkyl)CS-(C_3-C_6cycloalkyl), -N(C_3-C_6cycloalkyl)CS-(C_3-C_6cycloalkyl), -N(C_1-C_6alkyl)CS-phenyl, -N(C_3-C_6cycloalkyl)CS-phenyl, -NHCS-phenyl, -CSNH(C_1-C_6alkyl), -CSN(C_1-C_6alkyl)$_2$, -CSNH(C_3-C_6cycloalkyl), -CSN(C_1-C_6alkyl)(C_3-C_6cycloalkyl), -CSN(C_3-C_6cycloalkyl)$_2$, -CSNH-phenyl, -CSN(C_1-C_6alkyl)phenyl, -CSN(C_3-C_6cycloalkyl)phenyl, -C(=NOC_1-C_6alkyl)H, -C(=NOC_1-C_6alkyl)-C_1-C_6alkyl, phenyl and 5- to 6-membered heteroaryl;~~

~~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~~

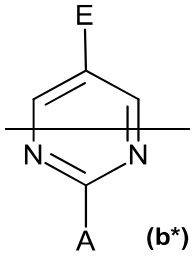
~~halogen, =O (oxo), hydroxy, -CN, -COOH, SO_2NH_2, $CONH_2$, $CSNH_2$, NO_2, SF_5, $-NH_2$;~~

~~and in each case optionally substituted -CO_2-C_1-C_6alkyl, C_1-C_6alkyl, C_3-C_6cycloalkyl, C_3-C_6cycloalkyl-C_1-C_6alkyl, C_1-C_6haloalkyl, C_1-C_6alkoxy, C_1-C_6haloalkoxy, 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_6haloalkylthio, C_1-C_6haloalkylsulfinyl, C_1-C_6haloalkylsulfonyl, C_2-C_4alkenylsulfanyl, C_2-C_4alkenylsulfinyl, C_2-C_4alkenylsulfonyl, C_2-C_4alkinylsulfanyl, C_2-C_4alkinylsulfinyl, C_2-C_4alkinylsulfonyl, phenylsulfanyl, phenylsulfinyl, phenylsulfonyl, S-C_1-C_6alkylsulfinimidoyl, S-C_3-C_6cycloalkylsulfinimidoyl, S-C_2-C_6alkenylsulfinimidoyl, S-C_2-C_6alkinylsulfinimidoyl, S-phenylsulfinimidoyl, S-C_1-C_6alkylsulfonimidoyl, S-C_3-C_6cycloalkylsulfonimidoyl, S-C_2-C_6alkenylsulfonimidoyl, S-C_2-C_6alkinylsulfonimidoyl, S-phenylsulfonimidoyl, -NH(C_1-C_6alkyl), -N(C_1-C_6alkyl)$_2$, -NHCO-C_1-C_6alkyl, -N(C_1-C_6alkyl)CO-C_1-C_6alkyl, -N(C_3-C_6cycloalkyl)CO-C_1-C_6alkyl, -NHCO-C_3-C_6cycloalkyl, N(C_1-C_6alkyl)CO-(C_3-C_6cycloalkyl), N(C_3-C_6cycloalkyl)CO-(C_3-C_6cycloalkyl), N(C_1-C_6alkyl)CO-phenyl, N(C_3-C_6cycloalkyl)CO-phenyl, -NHCO-phenyl, -N(CO-C_1-C_6alkyl)$_2$, -N(CO-C_3-C_6cycloalkyl)$_2$, -N(CO-phenyl)$_2$, -N(CO-C_3-C_6cycloalkyl)(CO-C_1-C_6alkyl), N(CO-C_3-C_6cycloalkyl)(CO-phenyl), -N(CO-C_1-C_6alkyl)(CO-phenyl), -CONH(C_1-C_6alkyl), -CON(C_1-C_6alkyl)$_2$, -CONH(C_3-C_6cycloalkyl), -CON(C_1-C_6alkyl)(C_3-C_6cycloalkyl), -CON(C_3-C_6cycloalkyl)$_2$, -CONH-SO_2-C_1-C_6alkyl, -CONH-SO_2-phenyl, -CONH-SO_2-(C_3-C_6cycloalkyl), -CON(C_1-C_6alkyl)-SO_2-C_1-C_6alkyl, -CON(C_1-C_6alkyl)-SO_2-phenyl, -CON(C_1-C_6alkyl)-SO_2-(C_3-C_6cycloalkyl),~~

~~CONH-phenyl, -CON(C_1-C_6alkyl)phenyl, -CON(C_3-C_6cycloalkyl)phenyl, -N(SO_2C_1-C_6alkyl)$_2$, -N(SO_2C_1-C_6haloalkyl)$_2$, -N(SO_2C_3-C_6cycloalkyl)$_2$, -N(SO_2C_1-C_6alkyl)SO_2-phenyl, -N(SO_2C_3-C_6cycloalkyl)SO_2-phenyl, -NHSO_2-C_1-C_6alkyl, -NHSO_2-C_1-C_6haloalkyl, -N(C_1-C_6alkyl)SO_2-C_1-C_6alkyl, -N(C_3-C_6cycloalkyl)SO_2-C_1-C_6alkyl, -NHSO_2-phenyl, -N(C_1-C_6alkyl)SO_2-phenyl, -N(C_3-C_6cycloalkyl)SO_2-phenyl, -NHSO_2-C_3-C_6cycloalkyl, -N(C_1-C_6alkyl)SO_2-(C_3-C_6cycloalkyl), -N(C_3-C_6cycloalkyl)SO_2-(C_3-C_6cycloalkyl), -SO_2NH(C_1-C_6alkyl), -SO_2N(C_1-C_6alkyl)$_2$, -SO_2N(C_1-C_6alkyl)(C_3-C_6cycloalkyl), -SO_2NH(C_3-C_6cycloalkyl), -SO_2N(C_3-C_6cycloalkyl)$_2$, -SO_2NH(phenyl), -SO_2N(C_1-C_6alkyl)(phenyl), -SO_2N(C_1-C_4cycloalkyl)(phenyl), -NHCS-C_1-C_6alkyl, -N(C_1-C_6alkyl)CS-C_1-C_6alkyl, -N(C_3-C_6cycloalkyl)CS-C_1-C_6alkyl, -NHCS-C_3-C_6cycloalkyl, -N(C_1-C_6alkyl)CS-(C_3-C_6cycloalkyl), -N(C_3-C_6cycloalkyl)CS-(C_3-C_6cycloalkyl), -N(C_1-C_6alkyl)CS-phenyl, -N(C_3-C_6cycloalkyl)CS-phenyl, -NHCS-phenyl, -CSNH(C_1-C_6alkyl), -CSN(C_1-C_6alkyl)$_2$, -CSNH(C_3-C_6cycloalkyl), -CSN(C_1-C_6alkyl)(C_3-C_6cycloalkyl), -CSN(C_3-C_6cycloalkyl)$_2$, -CSNH-phenyl, -CSN(C_1-C_6alkyl)phenyl, -CSN(C_3-C_6cycloalkyl)phenyl, -C(=NOC_1-C_6alkyl)H, -C(=NOC_1-C_6alkyl)-C_1-C_6alkyl, phenyl and 5- to 6-membered heteroaryl;~~

~~and wherein the compound of formula (a) is not N-{1-[1-(2,3-dihydro-1,4-benzodioxin-6-yl)-1H-tetrazol-5-yl]propyl}prop-2-yn-1-amine.~~

~~2. Compound of the formula (**b***)~~



~~(b*)~~

~~in which~~

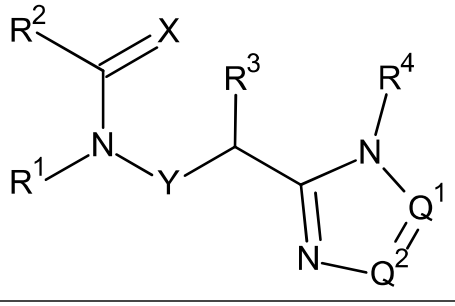
~~E is trifluoromethoxy or difluoromethoxy;~~

~~A is methylsulfonyl or hydrazinyl;~~

~~and wherein the compound of formula (**b***) is not 5-(difluoromethoxy)-2-(methylsulfonyl)pyrimidine.~~

~~3. Compound 5-(difluoromethoxy)-2-hydrazinopyridine and salts thereof.~~

1. Compound of the 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 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, 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_4alky1)$_2$, -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 (=NO C_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, -CONH2, -NO2, -NH2, 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_4alky1)$_2$, -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_4alky1)$_2$, -C(=NOC_1-C_4alkyl)H, -C (=NO C_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;

R^5 is hydrogen, halogen, -CN, C_1-C_3alkyl, C_1-C_3haloalkyl, C_3-C_4cycloalkyl, C_1-C_3alkoxy, C_1-C_3haloalkoxy, -C(O)C_1-C_3alkoxyC, -CH(C_1-C_3alkoxy)$_2$, -CO_2C_1-C_4alkyl, -CONH(C_1-C_4alkyl), -CON(C_1-C_4alky1)$_2$, -NHCO-C_1-C_4alkyl, -N(C_1-C_4alkyl)CO-C_1-C_4alkyl, -C(=NOC_1-C_4alkyl)H, or -C(=NOC_1-C_4alkyl)-C_1-C_4alkyl.

2. 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 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_1-C_3alkylsulfinyl, C_1-C_3alkylsulfonyl, C_1-C_3haloalkylthio, C_1-C_3haloalkyl sulfinyl, C_1-C_3haloalkyl sulfonyl, -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_3alky1$)_2$, -$NH(SO_2C_1$-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_4alky1)$_2$, -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. Compound according to Claim 1 or 2, 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 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, $-NO_2$, $-NH_2$, 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$)_2$, $-NH(SO_2C_1$-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 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, 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 substituent(s) are each independently selected from group B consisting of

fluorine, chlorine, bromine, iodine, -CN, methyl, cyclopropyl, difluoromethyl, trifluoromethyl, methoxy, trifluoromethoxy, difluoromethoxy, methylthio, methyl sulfinyl, methyl sulfonyl, 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. Compound according to any of Claims 1 to 3, 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-(triflurormethyl), 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;

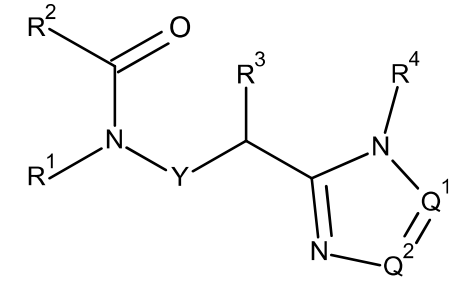
R^3 is methyl or ethyl;

R^4 is 5-cyanopyridin-2-yl, 5-cyanopyrimidin-2-yl, 4-cyanopyridin-2-yl, 5-(trifluoromethylthio)pyridin-2-yl, 5-(trifluoromethylsulfonyl)pyridin-2-yl, 5-nitropyridin-2-yl, 5-aminopyridin-2-yl, 5-(methoxycarbonyl)pyridin-2-yl, 5-(acetylamino)pyridin-2-yl, 5-[(cyclopropylcarbonyl)amino] pyridin-2-yl, 5-[(4-fluorobenzoyl)amino] pyridin-2-yl, 5 -[bis(methylsulfonyl)amino]pyridin-2-yl, 5-(methylcarbamoyl)pyridin-2-yl, 5-[3-

(trifluoromethyl)-1H-pyrazol-1-yl]pyridin-2-yl, 5-(methylsulfonamido)pyridin-2-yl, 6-cyanopyridin-2-yl, N-cyclopropyl-pyridin-2-y1-5-carboxamide, 5-methylsulfonylpyridin-2-yl, 6-methyl sulfonylpyridin-2-yl, 5-(methoxyiminomethyl)pyridin-2-yl, 5-((2,2,2-trifluoroacetyl)amino)pyridin-2-yl, 5-((2-cyanoacetypamino)pyridin-2-yl, 5-pyrazolylpyridin-2-yl, 5-((1-cyanocyclopropylcarbonyl)amino)pyridin-2-yl, N-(2,2,2-trifluoroethyl)pyridin-2-y1-5-carboxamide, 5-imidazolyl-pyridin-2-yl, 5-(1,2,4-triazolyl)pyridin-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-y1-5-carboxamide, 5-((1-chlorocyclopropylcarbonyl)amino)pyridin-2-yl, N-(4-fluorophenyl)pyridin-2-y1-5-carboxamide, N-cyclopropyl-N-methyl-pyridin-2-y1-5-carboxamide, N-methylsulfonylpyridin-2-y1-5-carboxamide, N-(1-cyanocyclopropyl)pyridin-2-y1-5-carboxamide, N,Ndimethyl-pyridin-2-y1-5-carboxamide, N,N-diethyl-pyridin-2-y1-5-carboxamide, N-isobutylpyridin-2-y1-5-carboxamide, 5-((2-cyclopropylacetypamino)pyridin-2-yl, 5-((2,2-difluorocyclopropylcarbonyl)amino)pyridin-2-yl, 5-((3,3-((Z)-2-chloro-3,3,3-trifluoro-prop-1-eny1)-2,2-dimethyl-cyclopropylcarbonyl)amino)pyridin-2-yl, 5-(propanoylamino)pyridin-2-yl, 5-((3-chlorobenzoyl)amino)pyridin-2-yl, N-ethyl-pyridin-2-y1-5-carboxamide, N-(1,2-dimethylpropyl)pyridin-2-y1-5-carboxamide, 5-((2-chlorobenzoyl)amino)pyridin-2-yl, Ncyanomethyl-pyridin-2-y1-5-carboxamide, N-(2-chloropheny1)-pyridin-2-y1-5-carboxamide, N-(4-chloropheny1)-pyridin-2-y1-5-carboxamide, N-(3-chloropheny1)-pyridin-2-y1-5 -carboxamide, or 4-pyrazol-1-yl-pyridin-2-y1;

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

5. Compound according to any of Claims 1 to 4, characterized in that it has a structure according to formula (I')



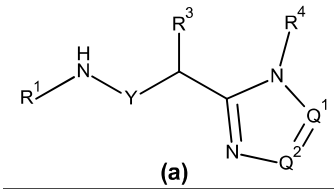
(I'),

in which the structural elements Y, Q^1, Q^2, R^1, R^2, R^3 R^4 and R^5 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.

6. Compound according to any of Claims 1 to 5, in which Q^1 represents N or CR^5 and Q^2 represents N and all further structural elements Y, R^1, R^2, R^3 R^4 and R^5 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.

7. Compound according to any of Claims 1 to 5, in Q^1 represents N and Q^2 represents CR^5 and all further structural elements Y, R^1, R^2, R^3 R^4 and R^5 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.

8. Compound of the formula (**a**)



(a)

in which the structural elements Y, Q^1, Q^2, R^1, R^3 R^4 and R^5 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 and wherein the compound of formula (a) is not N-{1-[1-(2,3-dihydro-1,4-benzodioxin-6-yl)-1H-tetrazol-5-yl]propyl}prop-2-yn-1-amine.

9. Formulation, especially agrochemical formulation, comprising at least one compound of the formula (I) according to any of Claims 1 to 7.

10. Formulation according to Claim 9, further comprising at least one extender and/or at least one surface-active substance.

11. Formulation according to Claim 9 or 10, characterized in that the compound of the formula (I) is in a mixture with at least one further active compound.

12. Method for controlling pests, especially animal pests, characterized in that a compound of the formula (I) according to any of Claims 1 to 7 or a formulation according to any of Claims 9 to 11 is allowed to act on the pests and/or their habitat, wherein methods for treatment of the animal body by surgery or therapy and diagnostic methods practised on the animal body are excluded.

13. Method according to Claim 12, characterized in that the pest is an animal pest and comprises an insect, an arachnid or a nematode, or in that the pest is an insect, an arachnid

or a nematode, wherein methods for treatment of the animal body by surgery or therapy and diagnostic methods practised on the animal body are excluded.

14. Use of a compound of the fornmla (I) according to any of Claims 1 to 7 or of a formulation according to any of Claims 9 to 11 for controlling animal pests, wherein uses for treatment of the animal body by surgery or therapy and diagnostic methods practised on the animal body are excluded.

15. Use according to Claim 14, 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, wherein uses for treatment of the animal body by surgery or therapy and diagnostic methods practised on the animal body are excluded.

16. Use according to Claim 14 or 15 in crop protection.

17. 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 7 or with a formulation according to any of Claims 9 to 11.