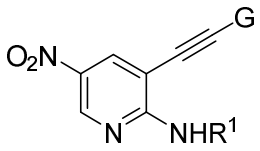
CLAIMS

1. A compound of Formula 2:



2

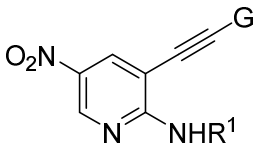
or a salt, a solvate, a tautomer, a stereoisomer or a deuterated analog thereof, wherein:

R^1 is $C(O)R^2$;

R^2 is alkyl substituted with 1-5 halogens; and

G is phenyl.

2. A method for preparing a compound of Formula 2:

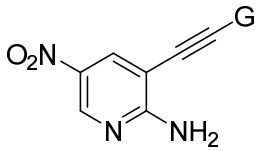


2

,

or a salt, a solvate, a tautomer, a stereoisomer or a deuterated analog thereof, said method comprising:

contacting a compound of Formula (I) or a salt thereof:



(I)

with an acetic anhydride, or a derivative thereof, to form the compound of Formula 2, wherein

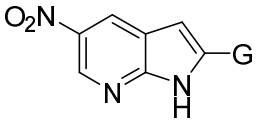
R^1 is $C(O)R^2$;

R^2 is alkyl substituted with 1-5 halogens; and

G is phenyl.

3. The method according to claim 2, wherein the acetic anhydride is trifluoroacetic anhydride.

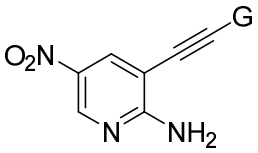
4. A method for preparing a compound of Formula 3:



3

or a salt, a solvate, a tautomer, a stereoisomer or a deuterated analog thereof, comprising:

contacting a compound of Formula (I) or a salt thereof:



(I)

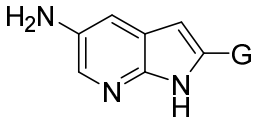
with an acetic anhydride, or a derivative thereof, to form the compound of Formula 2 according to claim 2; and

refluxing a compound of Formula 2 in a suitable solvent to form a compound of Formula 3.

5. The method according to claim 4, wherein the acetic anhydride is trifluoroacetic anhydride.

6. The method according to claim 4 or 5, wherein the suitable solvent is N-methyl-2-pyrrolidone (NMP).

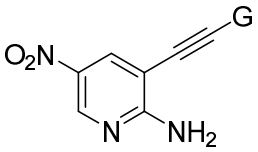
7. A method for preparing a compound of Formula 4:



4

or a salt, a solvate, a tautomer, a stereoisomer or a deuterated analog thereof, comprising:

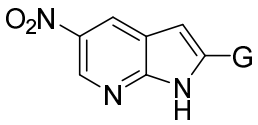
contacting a compound of Formula (I) or a salt thereof:



(I)

with an acetic anhydride, or a derivative thereof, to form the compound of Formula 2 according to claim 2;

refluxing a compound of Formula 2 in a suitable solvent to form a compound of Formula 3 or a salt thereof

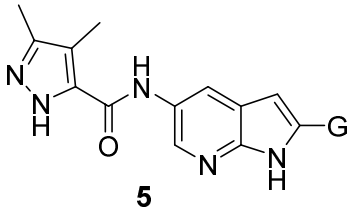


3 ; and

reducing a compound of Formula 3 to form a compound of Formula 4.

.

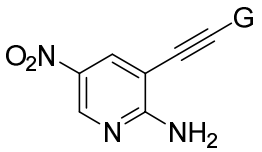
8. A method for preparing a compound of Formula 5:



5

or a salt, a solvate, a tautomer, a stereoisomer or a deuterated analog thereof, comprising:

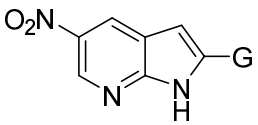
contacting a compound of Formula (I) or a salt thereof:



(I)

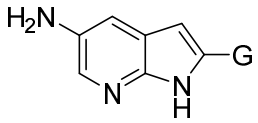
with an acetic anhydride, or a derivative thereof, to form the compound of Formula 2 according to claim 2;

refluxing a compound of Formula 2 in a suitable solvent to form Formula 3 or a salt thereof



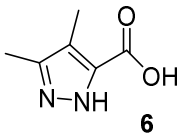
3 ;

reducing a compound of Formula 3 to form a compound of Formula 4 or a salt thereof



4 ; and

combining a compound of Formula 4 with a compound of Formula 6 or a salt thereof:



6 ,

with a suitable coupling agent to form a compound of Formula 5.

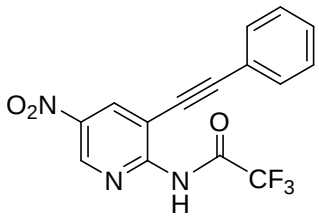
9. The method according to claim 8, wherein the acetic anhydride is trifluoroacetic anhydride.

10. The method according to claim 8 or 9, wherein the suitable solvent is N-methyl-2-pyrrolidone (NMP).

11. The method according to any one of claims 8, 9, or 10, wherein the suitable coupling agent is BOP, PyBOP, PyBrOP, TBTU, HBTU, HATU, COMU, or TFFH.

12. The method according to claim 11, wherein the suitable coupling agent is PyBOP.

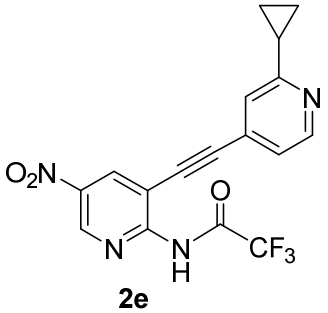
13. A compound of Formula 2a:



2a

or a salt, a solvate, a tautomer, a stereoisomer or a deuterated analog thereof.

14. A compound of Formula 2e:



2e

or a salt, a solvate, a tautomer, a stereoisomer or a deuterated analog thereof.