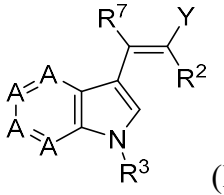
CLAIMS

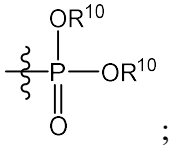
What is claimed is:

1. A method for the preparation of a compound of formula (I) or a pharmaceutically acceptable salt thereof,


(I)

wherein:

each A is independently CH, CR^4, or N, provided at least one A is N;

Y is carboxyl, ester, amide, or ;

R^2 is CN or carboxyl;

R^3 is H, aryl, aralkyl, or aralkylacyl, and is optionally substituted by one or more R^5;

each instance of R^4 is independently alkyl, carboxyl, halo, hydroxy, ester, or CN;

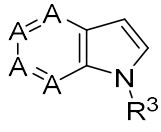
each instance of R^5 is independently selected from alkyl, alkoxy, or halo;

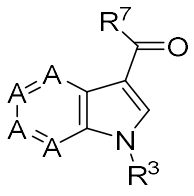
R^7 is hydrogen, alkyl, halo, hydroxyl, alkoxy, or acyloxy; and

R^{10} is hydrogen or alkyl;

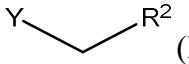
said method comprising:

reacting the compound of formula (Ic) with an acylation (e.g., formylation) reagent to produce a compound of formula (Id):

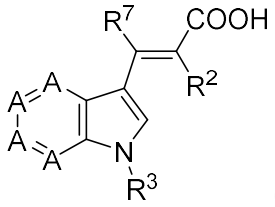

(Ic),


(Id); and

reacting the compound of formula (Id) with a condensation agent of formula (Ie) to produce the compound of formula (I):

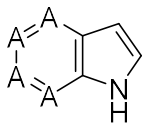

(Ie).

2. The method of claim 1, further comprising hydrolyzing the compound of formula (I) to produce a compound of formula (If):



(If).

3. The method of any one of claims 1-2, further comprising reacting a compound of formula (Ia) with an alkylation regent of formula (Ib) to produce a compound of formula (Ic):

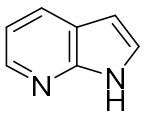
 (Ia), R^3—W (Ib),

wherein W is a leaving group (e.g., halo); and

R^3 is aryl, aralkyl, or aralkylacyl, and is optionally substituted by one or more R^5.

4. The method of any one of claims 1-3, wherein exactly one A is N.

5. The method of claim 3, wherein compound (Ia) is



.

6. The method of any one of claims 1-5, wherein R^2 is CN.

7. The method of any one of claims 1-5, wherein R^3 is benzyl.

8. The method of any one of claims 1-5, wherein R^3 is benzyl and is substituted by one or more R^5.

9. The method of any one of claims 1-8, wherein R^3 is substituted by one or two R^5, and wherein each R^5 is independently selected from fluoroalkyl or fluoro.

10. The method of any one of claims 1-8, wherein R^3 is substituted by two R^5, and wherein each R^5 is trifluoromethyl.

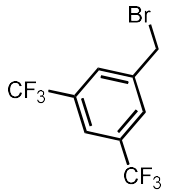
11. The method of claims 1-10, wherein R^7 is hydrogen, hydroxyl, halo (e.g., chloro), or acyloxy (e.g., acetyloxy).

12. The method of claims 1-11, wherein R^7 is hydrogen.

13. The method of any one of claims 3-12, wherein the leaving group W of the alkylation regent is halo.

14. The method of any one of claims 3-13, wherein the leaving group W of the alkylation regent is bromide.

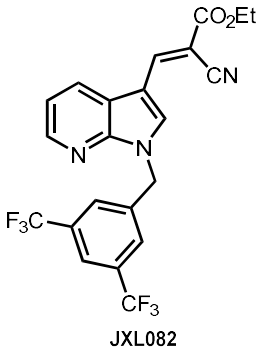
15. The method of any one of claims 3-14, wherein the alkylation regent is



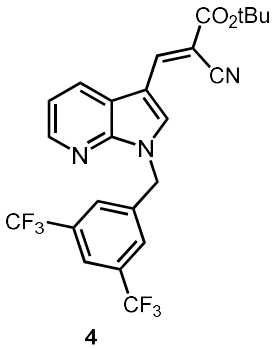
16. The method of any one of claims 1-15, wherein the acylation reagent is phosphorus oxychloride.

17. The method of any one of claims 1-16, wherein the condensation agent is ethyl 2-cyanoacetate or *tert*-butyl 2-cyanoacetate.

18. The method of any one of claims 1-17, wherein the compound of formula (I) is

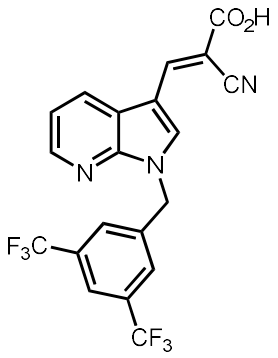


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19. The method of any one of claims 2-18, wherein the compound of formula (If) is



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