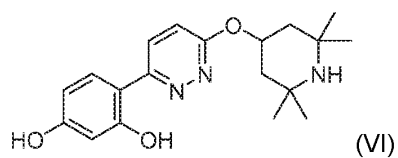


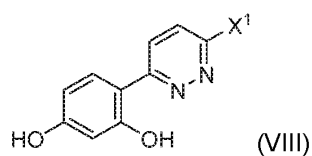
Claims:

1. A method for preparing a compound of formula (VI), or salt thereof,



comprising

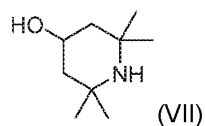
reacting a compound of formula (VIII), or salt thereof,



wherein

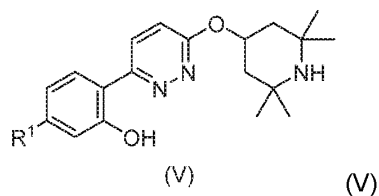
X¹ is halo;

with a compound of formula (VII), or salt thereof,

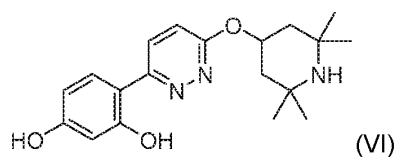


under nucleophilic aromatic substitution (S_NAr) reaction conditions,
to provide the compound of formula (VI), or salt thereof.

2. A method for preparing a compound of formula (V), or salt thereof,

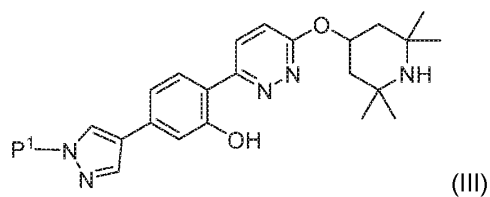


wherein R^1 is $-OR^2$, and R^2 is a hydroxyl activating group (e.g Ts)
 comprising
 reacting a compound of formula (VI), or salt thereof,

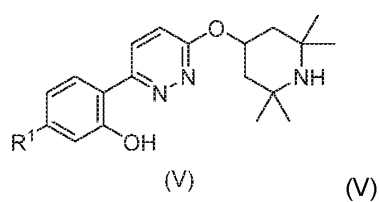


under hydroxyl activating reaction conditions
 to provide the compound of formula (V), or salt thereof.

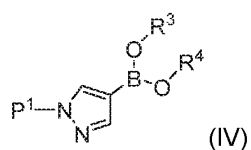
3. A method for preparing a compound of formula (III), or salt thereof,



wherein P^1 is a nitrogen protecting group
 comprising
 reacting a compound of formula (V), or salt thereof,



wherein R^1 is $-OR^2$, and R^2 is a hydroxyl activating group (e.g Ts)
 with a compound of formula (IV)



wherein

P¹ is a nitrogen protecting group

R³ is H or C₁₋₄alkyl;

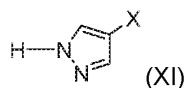
R⁴ is H or C₁₋₄alkyl;



or R³ and R⁴ together to form the group , wherein * denotes the point of attachment to each of the oxygen atoms attached to the boron atom, under Suzuki coupling reaction conditions to provide the compound of formula (III), or salt thereof.

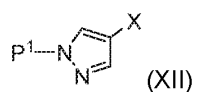
4. The method for preparing a compound of formula (III), or salt thereof, according to claim 3, further comprising preparing the compound of formula (IV), or salt thereof, according to a method comprising

- i) reacting a compound of formula (XI), or salt thereof,



wherein X is halogen (e.g. iodo)

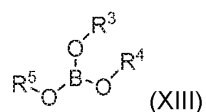
under nitrogen protecting conditions to provide the compound of formula (XII), or salt thereof



wherein X is halogen (e.g. iodo)

P¹ is a nitrogen protecting group;

- ii) reacting the compound of formula (XII), or salt thereof with a compound of formula (XIII),



wherein

R^3 is H or C_{1-4} alkyl;

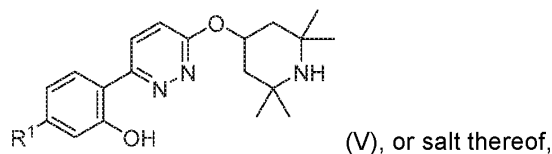
R^4 is H or C_{1-4} alkyl;

R^5 is C_{1-4} alkyl;



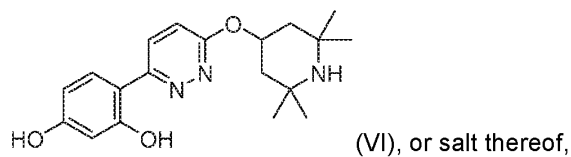
or R^3 and R^4 together to form the group , wherein * denotes the point of attachment to each of the oxygen atoms attached to the boron atom, under Grignard reaction conditions to provide the compound of formula (IV), or salt thereof.

5. A method for preparing a compound of formula (V),



wherein R^1 is $-OR^2$, and R^2 is a hydroxyl activating group (e.g. Ts), comprising:

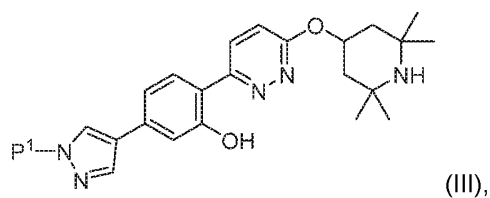
i) preparing a compound of formula (VI),



according to the method of claim 1; and

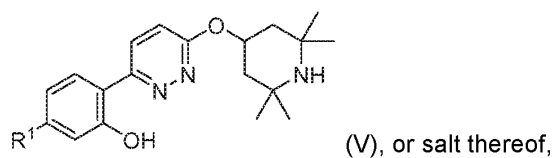
ii) reacting the compound of formula (VI), or salt thereof, according to claim 2, to obtain the compound of formula (V), or salt thereof.

6. A method for preparing a compound of formula (III), or salt thereof,

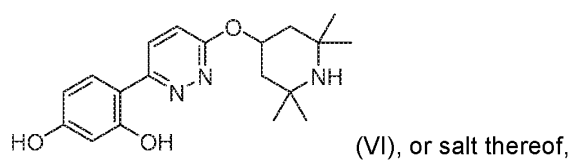


wherein P¹ is a nitrogen protecting group,
comprising:

- i) preparing a compound of formula (V),



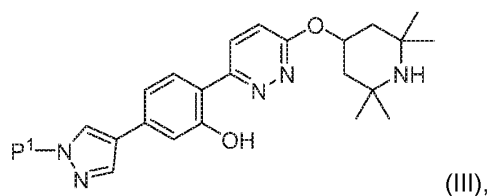
wherein R¹ is -OR², and R² is a hydroxyl activating group (e.g Ts),
from the compound of formula (VI),



according to the method of claim 2; and

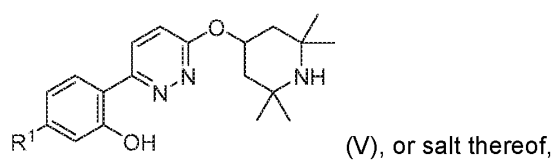
- ii) reacting the compound of formula (V), or salt thereof, according to claims 3 or 4, to obtain the compound of formula (III), or salt thereof.

7. A method for preparing a compound of formula (III), or salt thereof,



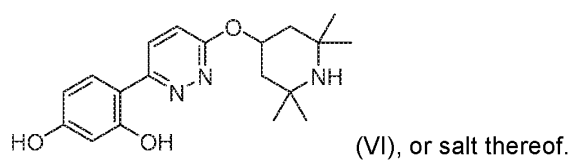
wherein P¹ is a nitrogen protecting group,
 according to claim 6, wherein the compound of formula (VI) or salt thereof is prepared according
 to the method of claim 1.

8. A compound of formula (V)

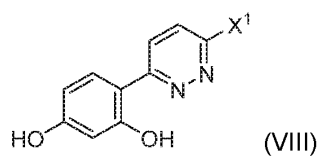


wherein R¹ is –OR², and R² is a hydroxyl activating group (e.g Ts).

9. The compound of formula (VI),

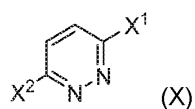


10. A method for preparing a compound of formula (VIII), or salt thereof,



wherein
 X¹ is halo;
 comprising

reacting a compound of formula (X), or salt thereof,

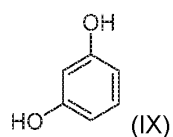


wherein

X¹ is halo;

X² is halo;

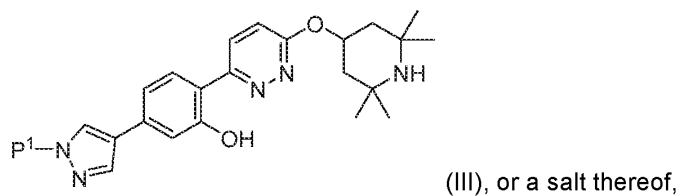
with a compound of formula (IX), or salt thereof,



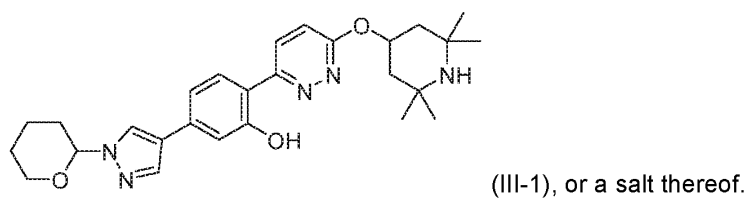
under Friedel-Crafts reaction conditions

to provide the compound of formula (VIII), or salt thereof.

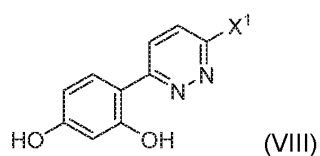
11. A compound of formula (III),



wherein P¹ is a nitrogen protecting group, such as the compound of formula (III-1),



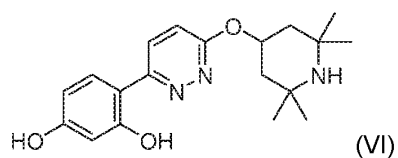
12. A compound of formula (VIII), or salt thereof,



wherein

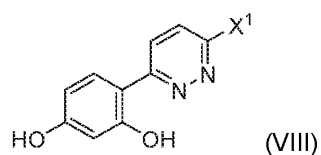
X¹ is halo (e.g. Cl).

13. A method for preparing a compound of formula (VI), or salt thereof,



comprising

- i) preparing a compound of formula (VIII), or salt thereof,



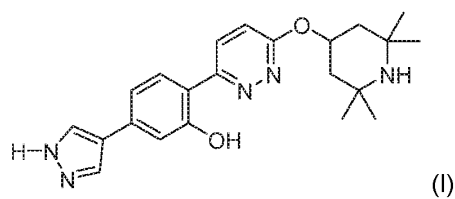
wherein

X¹ is halo,

according to claim 10; and

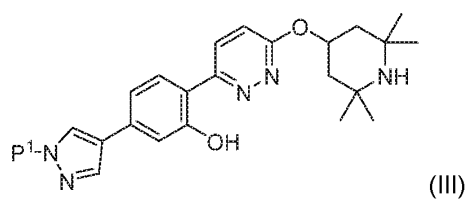
- ii) reacting the compound of formula (VIII), or salt thereof, according to claim 1 to obtain the compound of formula (VI), or salt thereof.

14. A method for preparing a compound of formula (I), or salt thereof,



comprising

reacting a compound of formula (III), or salt thereof,

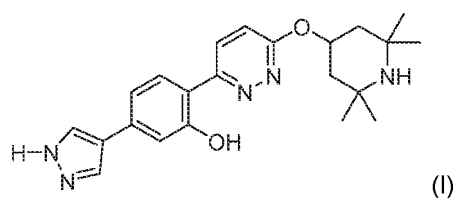


wherein

P¹ is a nitrogen protecting group,

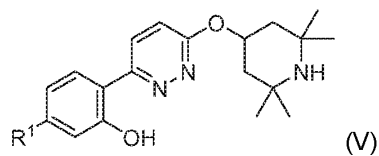
under nitrogen deprotecting conditions to provide the compound of formula (I), or salt thereof.

15. A method for preparing a compound of formula (I), or salt thereof,



comprising

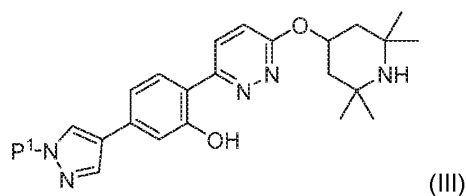
i) reacting a compound of formula (V), or salt thereof,



wherein

R¹ is -OR², and R² is a hydroxyl activating group (e.g. Ts),

according to claims 3 or 4,
to provide the compound of formula (III), or salt thereof,

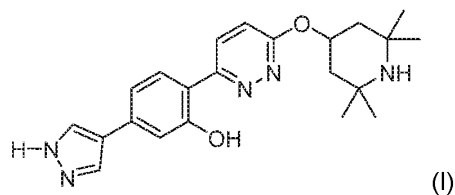


wherein

P¹ is a nitrogen protecting group; and

- ii) reacting the compound of formula (III), or salt thereof, according to claim 14 to provide the compound of formula (I), or salt thereof.

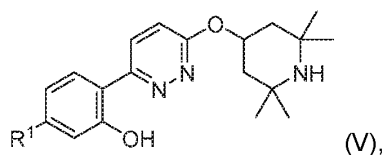
16. A method for preparing a compound of formula (I), or salt thereof,



comprising

- i) reacting the compound of formula (VI), or salt thereof, according to claim 2, to provide the compound of formula (V), or salt thereof,
- ii) reacting the compound of formula (V), or salt thereof, according to claims 3 or 4 to provide the compound of formula (III), or salt thereof; and
- iii) reacting the compound of formula (III), or salt thereof, according to claim 14, to provide the compound of formula (I), or salt thereof.

17. A method for preparing a compound of formula (V), or salt thereof,

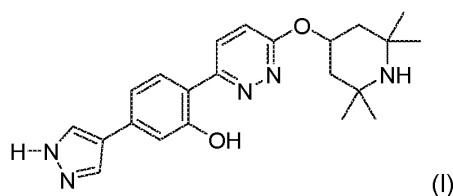


wherein R^1 is $-OR^2$, and R^2 is a hydroxyl activating group (e.g Ts)

comprising

- i) reacting the compound of formula (X), or salt thereof, according to claim 10, to provide the compound of formula (VIII), or salt thereof;
- ii) reacting the compound of formula (VIII), or salt thereof, according to claim 1 to provide the compound of formula (VI), or salt thereof; and
- iii) reacting the compound of formula (VI), or salt thereof; according to claim 2, to provide the compound of formula (V), or salt thereof.

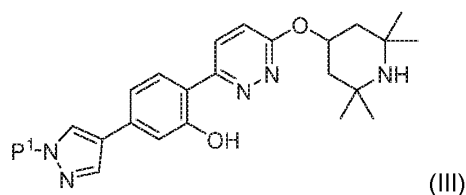
18. A method for preparing a compound of formula (I), or salt thereof,



comprising

- i) reacting the compound of formula (VI), or salt thereof, according to claim 2, to provide the compound of formula (V), or salt thereof,
- ii) reacting the compound of formula (V), or salt thereof, according to claims 3 or 4 to provide the compound of formula (III), or salt thereof; and
- iii) reacting the compound of formula (III), or salt thereof; according to claim 14, to provide the compound of formula (I), or salt thereof.

19. A method for preparing a compound of formula (III), or salt thereof,



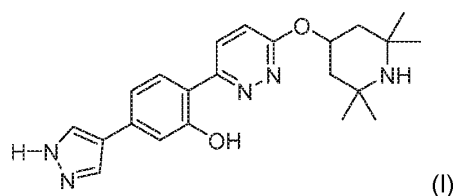
wherein

P^1 is a nitrogen protecting group,

comprising

- i) reacting the compound of formula (X), or salt thereof, according to claim 10, to provide the compound of formula (VIII), or salt thereof;
- ii) reacting the compound of formula (VIII), or salt thereof, according to claim 1 to provide the compound of formula (VI), or salt thereof;
- iii) reacting the compound of formula (VI), or salt thereof; according to claim 2, to provide a compound of formula (V), or salt thereof; and
- iv) reacting the compound of formula (V), or salt thereof; according to claims 3 or 4, to provide the compound of formula (III), or salt thereof.

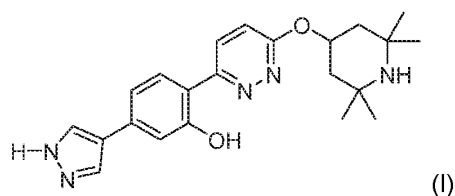
20. A method for preparing a compound of formula (I), or salt thereof,



comprising

- i) reacting the compound of formula (X), or salt thereof, according to claim 10, to provide the compound of formula (VIII), or salt thereof;
- ii) reacting the compound of formula (VIII), or salt thereof, according to claim 1 to provide the compound of formula (VI), or salt thereof;
- iii) reacting the compound of formula (VI), or salt thereof; according to claim 2, to provide a compound of formula (V), or salt thereof;
- iv) reacting the compound of formula (V), or salt thereof; according to claims 3 or 4, to provide the compound of formula (III), or salt thereof; and
- v) reacting the compound of formula (III), or salt thereof, according to claim 14 to provide the compound of formula (I), or salt thereof.

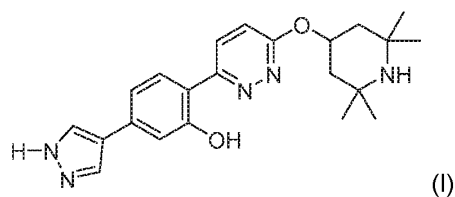
21. A method for preparing a compound of formula (I), or salt thereof,



comprising

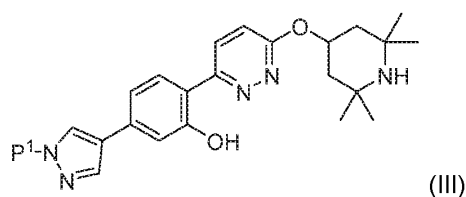
- i) reacting the compound of formula (VIII), or salt thereof, according to claim 1 to provide the compound of formula (VI), or salt thereof;
- ii) reacting the compound of formula (VI), or salt thereof; according to claim 2, to provide a compound of formula (V), or salt thereof;
- iii) reacting the compound of formula (V), or salt thereof; according to claims 3 or 4, to provide the compound of formula (III), or salt thereof; and
- iv) reacting the compound of formula (III), or salt thereof, according to claim 14 to provide the compound of formula (I), or salt thereof.

22. A method for preparing a salt (e.g. a hydrochloride salt) of the compound of formula (I),



comprising

reacting a compound of formula (III), or salt thereof,

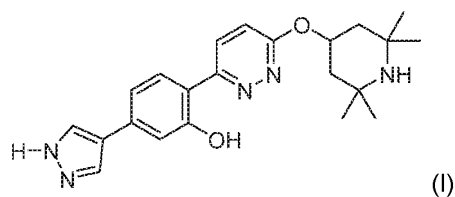


wherein

P¹ is a nitrogen protecting group,

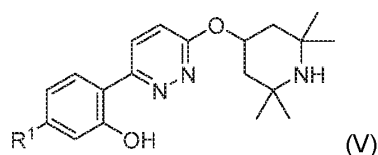
under nitrogen deprotecting conditions (e.g. with HCl) to provide a salt (e.g. a hydrochloride salt) of the compound of formula (I) [e.g. 5-(1H-Pyrazol-4-yl)-2-{6-[(2,2,6,6-tetramethylpiperidin-4-yl)oxy]pyridazin-3-yl}phenol monohydrochloride monohydrate].

23. A method for preparing a salt (e.g. a hydrochloride salt) of the compound of formula (I),



comprising

i) reacting a compound of formula (V), or salt thereof,

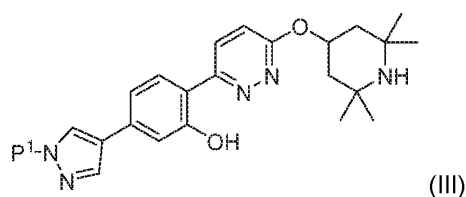


wherein

R¹ is -OR², and R² is a hydroxyl activating group (e.g. Ts),

according to claims 3 or 4,

to provide the compound of formula (III), or salt thereof,



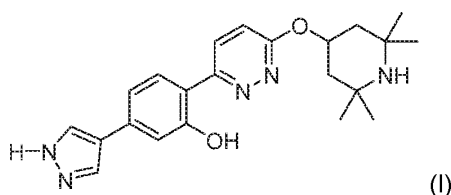
wherein

P¹ is a nitrogen protecting group; and

ii) reacting the compound of formula (III), or salt thereof, according to claim 22 to provide a salt (e.g. a hydrochloride salt) of the compound of formula (I)

[e.g. 5-(1H-Pyrazol-4-yl)-2-{6-[(2,2,6,6-tetramethylpiperidin-4-yl)oxy]pyridazin-3-yl}phenol monohydrochloride monohydrate].

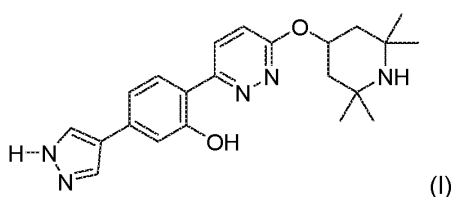
24. A method for preparing a salt (e.g. a hydrochloride salt) of the compound of formula (I),



comprising

- i) reacting the compound of formula (VI), or salt thereof, according to claim 2, to provide the compound of formula (V), or salt thereof;
- ii) reacting the compound of formula (V), or salt thereof, according to claims 3 or 4 to provide the compound of formula (III), or salt thereof; and
- iii) reacting the compound of formula (III), or salt thereof, according to claim 22, to provide a salt (e.g. a hydrochloride salt) of the compound of formula (I) [e.g. 5-(1H-Pyrazol-4-yl)-2-{6-[(2,2,6,6-tetramethylpiperidin-4-yl)oxy]pyridazin-3-yl}phenol monohydrochloride monohydrate].

25. A method for preparing a salt (e.g. a hydrochloride salt) of the compound of formula (I),

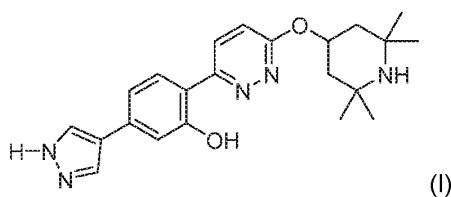


comprising

- i) reacting the compound of formula (VI), or salt thereof, according to claim 2, to provide the compound of formula (V), or salt thereof,
- ii) reacting the compound of formula (V), or salt thereof, according to claims 3 or 4 to provide the compound of formula (III), or salt thereof; and

- iii) reacting the compound of formula (III), or salt thereof; according to claim 22, to provide a salt (e.g. a hydrochloride salt) of the compound of formula (I) [e.g. 5-(1H-Pyrazol-4-yl)-2-{6-[(2,2,6,6-tetramethylpiperidin-4-yl)oxy]pyridazin-3-yl}phenol monohydrochloride monohydrate].

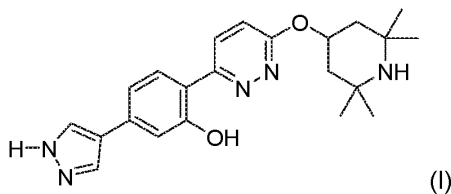
26. A method for preparing a salt (e.g. a hydrochloride salt) of the compound of formula (I),



comprising

- i) reacting the compound of formula (X), or salt thereof, according to claim 10, to provide the compound of formula (VIII), or salt thereof;
- ii) reacting the compound of formula (VIII), or salt thereof, according to claim 1 to provide the compound of formula (VI), or salt thereof;
- iii) reacting the compound of formula (VI), or salt thereof; according to claim 2, to provide a compound of formula (V), or salt thereof;
- iv) reacting the compound of formula (V), or salt thereof; according to claims 3 or 4, to provide the compound of formula (III), or salt thereof; and
- v) reacting the compound of formula (III), or salt thereof, according to claim 22 to provide a salt (e.g. a hydrochloride salt) of the compound of formula (I) [e.g. 5-(1H-Pyrazol-4-yl)-2-{6-[(2,2,6,6-tetramethylpiperidin-4-yl)oxy]pyridazin-3-yl}phenol monohydrochloride monohydrate].

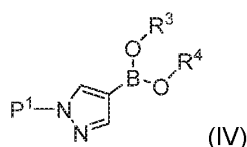
27. A method for preparing a salt (e.g. a hydrochloride salt) of the compound of formula (I),



comprising

- i) reacting the compound of formula (VIII), or salt thereof, according to claim 1 to provide the compound of formula (VI), or salt thereof;
- ii) reacting the compound of formula (VI), or salt thereof; according to claim 2, to provide a compound of formula (V), or salt thereof;
- iii) reacting the compound of formula (V), or salt thereof; according to claims 3 or 4, to provide the compound of formula (III), or salt thereof; and
- iv) reacting the compound of formula (III), or salt thereof, according to claim 22 to provide a salt (e.g. a hydrochloride salt) of the compound of formula (I) [e.g. 5-(1H-Pyrazol-4-yl)-2-{6-[(2,2,6,6-tetramethylpiperidin-4-yl)oxy]pyridazin-3-yl}phenol monohydrochloride monohydrate].

28. A method for preparing a compound of formula (IV)



wherein

P¹ is a nitrogen protecting group

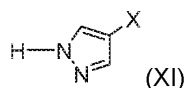
R³ is H or C₁₋₄alkyl;

R⁴ is H or C₁₋₄alkyl;



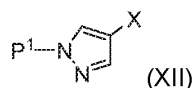
or R³ and R⁴ together to form the group , wherein * denotes the point of attachment to each of the oxygen atoms attached to the boron atom, comprising

- i) reacting a compound of formula (XI), or salt thereof,



wherein X is halogen (e.g. iodo)

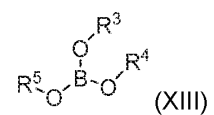
under nitrogen protecting conditions to provide the compound of formula (XII), or salt thereof



wherein X is halogen (e.g. iodo)

P¹ is a nitrogen protecting group;

- ii) reacting the compound of formula (XII), or salt thereof
with a compound of formula (XIII),



wherein

R³ is H or C₁₋₄alkyl;

R⁴ is H or C₁₋₄alkyl;

R⁵ is C₁₋₄alkyl;



or R³ and R⁴ together to form the group , wherein * denotes the point of attachment to each of the oxygen atoms attached to the boron atom,
under Grignard reaction conditions
to provide the compound of formula (IV), or salt thereof.