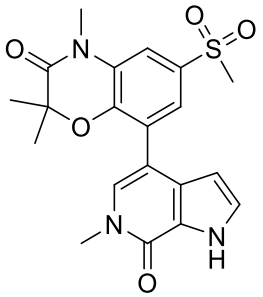
What is claimed is:

1. A solid form of a compound having the formula:



Compound 1

wherein the solid form is crystalline;
and wherein the solid form is selected from Form Ia, Form III, Form IV, Form V, Form Va, Form VI, Form VII, Form VIII, Form IX, Form X, Form XI, Form XII, Form XIII, Form XIV and XV.

2. The solid form of claim 1, wherein the solid form has Form Ia.

3. The solid form of claim 2, having three or more characteristic XRPD peaks, in terms of 2-theta, selected from about 8.8, about 10.0, about 11.7, about 12.8, about 13.5, about 20.0, about 21.5, about 22.6, and about 23.3 degrees.

4. The solid form of claim 1 wherein the solid form has Form III.

5. The solid form of claim 4, having three or more characteristic XRPD peaks, in terms of 2-theta, selected from about 7.8, about 12.4, about 15.2, about 15.5, about 16.9, about 17.5, and about 20.3 degrees.

6. The solid form of claim 1, wherein the solid form has Form IV.

7. The solid form of claim 6, having one or more characteristic XRPD peaks, in terms of 2-theta, selected from about 11.2, about 16.3, about 18.7, and about 22.1 degrees.

8. The solid form of claim 1, wherein the solid form has Form V.

9. The solid form of claim 8, having one or more characteristic XRPD peaks, in terms of 2-theta, selected from 8.2, about 8.5, about 14.1, about 16.3, about 17.1, about 18.9, about 19.8, about 21.8, and about 22.7 degrees.

10. The solid form of claim 1, wherein the solid form has Form Va.

11. The solid form of claim 10, having one or more characteristic XRPD peaks, in terms of 2-theta, selected from about 8.7, about 16.5, about 17.3, about 19.9, and about 21.6 degrees.

12. The solid form of claim 1, wherein the solid form has Form VI.

13. The solid form of claim 12, having one or more characteristic XRPD peaks, in terms of 2-theta, selected from about 8.5, about 9.6, about 11.4, about 12.1, about 13.5, about 14.5, about 15.2, about 17.1, about 17.7, about 18.1, about 19.2, and about 20.7 degrees.

14. The solid form of claim 1, wherein the solid form has Form VII.

15. The solid form of claim 14, having one or more characteristic XRPD peaks, in terms of 2-theta, selected from about 9.9, about 12.2, about 14.8, about 15.7, about 17.0, about 17.5, and about 18.8 degrees.

16. The solid form of claim 1, wherein the solid form has Form VIII.

17. The solid form of claim 16, having one or more characteristic XRPD peaks, in terms of 2-theta, selected from about 8.1, about 8.5, about 16.2, about 16.6, about 17.0, about 17.5, about 18.0, about 18.9, about 19.6, and about 20.1 degrees.

18. The solid form of claim 1, wherein the solid form has Form IX.

19. The solid form of claim 18, having one or more characteristic XRPD peaks, in terms of 2-theta, selected from about 8.6, about 9.1, about 11.4, about 13.4, about 15.2, about 18.2, about 22.1, about 22.8, and about 23.9 degrees.

20. The solid form of claim 1, wherein the solid form has Form X.

21. The solid form of claim 20, having one or more characteristic XRPD peaks, in terms of 2-theta, selected from about 14.9, about 15.3, about 15.8, about 17.0, about 17.7, about 18.3, and about 19.7 degrees.

22. The solid form of claim 1, wherein the solid form has Form XI.

23. The solid form of claim 22, having one or more characteristic XRPD peaks, in terms of 2-theta, selected from about 8.9, about 12.8, about 18.0 about 21.5, about 22.6, and about 23.3 degrees.

24. The solid form of claim 1, wherein the solid form has Form XII.

25. The solid form of claim 24, having one or more characteristic XRPD peaks, in terms of 2-theta, selected from about 5.6, about 11.7, about 13.8, about 14.5, about 16.9, about 17.7, about 18.7, about 23.5, about 24.6, about 34.3, about 44.2, and 44.6 degrees.

26. The solid form of claim 1, wherein the solid form has Form XIII.

27. The solid form of claim 26, having one or more characteristic XRPD peaks, in terms of 2-theta, selected from about 5.7, about 8.6, about 9.8, about 11.8, about 12.6, about 13.4, about 14.1, about 14.8, about 16.6, and about 19.1 degrees.

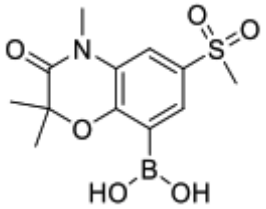
28. The solid form of claim 1, wherein the solid form has Form XIV.

29. The solid form of claim 28, having one or more characteristic XRPD peaks, in terms of 2-theta, selected from about 5.7, about 8.6, about 9.8, about 11.8, about 12.6, about 13.4, about 14.1, about 14.8, about 16.6, and about 19.1 degrees.

30. The solid form of claim 1, wherein the solid form has Form XV.

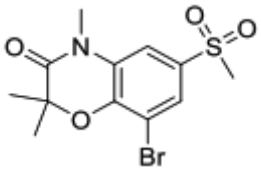
31. The solid form of claim 30, having one or more characteristic XRPD peaks, in terms of 2-theta, selected from about 7.4, about 9.6, about 12.4, about 13.4, about 15.5, about 16.9, about 17.7, about 19.0, about 19.5, about 20.6, and about 22.5 degrees.

32. A process of preparing Compound 7:



Compound 7

comprising reacting Compound 6:



Compound 6

with 4,4,4',4',5,5,5',5'-octamethyl-2,2'-bi(1,3,2-dioxaborolane) in the presence of P3 and B3, wherein P3 is a transition metal catalyst and B3 is a base.

33. The process of claim 32, wherein P3 is a palladium catalyst.

34. The process of claim 33, wherein the palladium catalyst is [1,1′-bis(diphenylphosphino)ferrocene]dichloropalladium(II).

35. The process of claim 33, wherein the palladium catalyst is selected from [1,1′-bis(diphenylphosphino)ferrocene]dichloropalladium(II), dichloro(bis{di-tert-butyl[4-(dimethylamino)phenyl]-phosphoranyl})palladium (Pd-132), Pd(PPh3)4, and tetrakis(tri(o-tolyl)phosphine)palladium(0).

36. The process of claim 32, wherein B3 is an alkali metal acetate base.

37. The process of claim 36, wherein the alkali metal acetate base is potassium acetate.

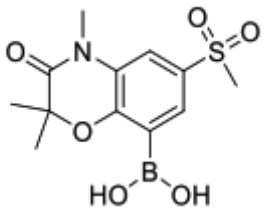
38. The process of claim 32, wherein the reacting of Compound 6 with 4,4,4',4',5,5,5',5'-octamethyl-2,2'-bi(1,3,2-dioxaborolane) is carried out in a third solvent.

39. The process of claim 32, wherein the reacting of Compound 6 with 4,4,4',4',5,5,5',5'-octamethyl-2,2'-bi(1,3,2-dioxaborolane) is carried out at a temperature of about 70 ºC to about 90 ºC.

40. The process of claim 32, wherein about 0.01 to about 0.05 equivalent of P3 is used based on 1 equivalent of Compound 6.

41. The process of claim 32, wherein about 3 to about 3.5 equivalent of B3 are used based on 1 equivalent of Compound 6.

42. A compound which is



Compound 7

or a salt thereof.

43. The compound of claim 42, wherein Compound 7 is a salt thereof.