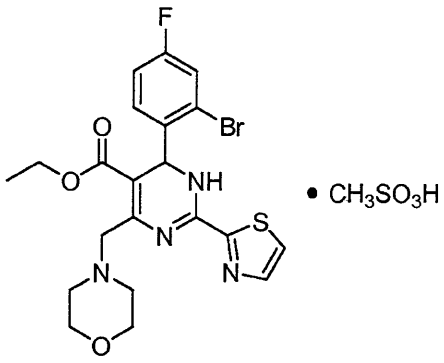
CLAIMS

1. A crystalline form of the compound of formula (I):



(I),

or a tautomer or a combination thereof.

2. The crystalline form of claim 1, wherein the crystalline form is form A, form B, form C, form G, form H, form I or a combination thereof.

3. The crystalline form of claim 2, wherein the crystalline form is form A having an X-ray powder diffraction (XRPD) pattern comprising peaks expressed in degrees 2θ at 6.57° ± 0.2°, 13.13° ± 0.2°, 13.38° ± 0.2°, 19.73° ± 0.2°, 20.18° ± 0.2°, 20.90° ± 0.2°, 24.90° ± 0.2°, 26.63° ± 0.2° and 29.01° ± 0.2°.

4. The crystalline form of claim 2, wherein the crystalline form is form A having an X-ray powder diffraction (XRPD) pattern comprising peaks expressed in degrees 2θ at 6.57° ± 0.2°, 13.13° ± 0.2°, 13.38° ± 0.2°, 19.73° ± 0.2°, 20.18° ± 0.2°, 20.90° ± 0.2°, 22.43° ± 0.2°, 24.38° ± 0.2°, 24.90° ± 0.2°, 26.63° ± 0.2°, 27.93° ± 0.2° and 29.01° ± 0.2°.

5. The crystalline form of claim 2, wherein the crystalline form is form A having an X-ray powder diffraction (XRPD) pattern comprising peaks expressed in degrees 2θ at 6.57° ± 0.2°, 9.73° ± 0.2°, 11.14° ± 0.2°, 13.13° ± 0.2°, 13.38° ± 0.2°, 19.73° ± 0.2°, 20.18° ± 0.2°, 20.90° ± 0.2°, 22.43° ± 0.2°, 23.20° ± 0.2°, 24.38° ± 0.2°, 24.90° ± 0.2°, 26.63° ± 0.2°, 27.93° ± 0.2°, 29.01° ± 0.2°, 29.84° ± 0.2°, 30.78° ± 0.2° and 31.68° ±

0.2°.

6. The crystalline form of claim 2, wherein the crystalline form is form A having an X-ray powder diffraction (XRPD) pattern substantially the same as shown in Figure 1.

7. The crystalline form of claim 2, wherein the crystalline form is form A having a differential scanning calorimetry (DSC) thermogram comprising an endothermic peak at about 162.3 °C ± 3 °C.

8. The crystalline form of claim 2, wherein the crystalline form is form A having a differential scanning calorimetry (DSC) thermogram substantially the same as shown in Figure 2.

9. The crystalline form of claim 2, wherein the crystalline form is form B having an X-ray powder diffraction (XRPD) pattern comprising peaks expressed in degrees 2θ at 6.68° ± 0.2°, 13.39° ± 0.2°, 19.65° ± 0.2°, 20.26° ± 0.2°, 22.45° ± 0.2°, 24.80° ± 0.2°, 25.01° ± 0.2°, 26.19° ± 0.2°, 26.61° ± 0.2° and 28.79° ± 0.2°.

10. The crystalline form of claim 2, wherein the crystalline form is form B having an X-ray powder diffraction (XRPD) pattern comprising peaks expressed in degrees 2θ at 6.68° ± 0.2°, 9.77° ± 0.2°, 9.98° ± 0.2°, 11.88° ± 0.2°, 13.39° ± 0.2°, 16.65° ± 0.2°, 17.66° ± 0.2°, 19.08° ± 0.2°, 19.65° ± 0.2°, 20.26° ± 0.2°, 20.81° ± 0.2°, 20.97° ± 0.2°, 22.45° ± 0.2°, 24.80° ± 0.2°, 25.01° ± 0.2°, 26.19° ± 0.2°, 26.61° ± 0.2°, 28.79° ± 0.2°, 29.78° ± 0.2°, 30.13° ± 0.2°, 31.61° ± 0.2°, 31.92° ± 0.2° and 32.45° ± 0.2°.

11. The crystalline form of claim 2, wherein the crystalline form is form B having an X-ray powder diffraction (XRPD) pattern comprising peaks expressed in degrees 2θ at 6.68° ± 0.2°, 9.77° ± 0.2°, 9.98° ± 0.2°, 11.88° ± 0.2°, 13.39° ± 0.2°, 14.62° ± 0.2°, 16.65° ± 0.2°, 17.66° ± 0.2°, 19.08° ± 0.2°, 19.65° ± 0.2°, 20.26° ± 0.2°, 20.81° ± 0.2°, 20.97° ± 0.2°, 22.07° ± 0.2°, 22.45° ± 0.2°, 24.80° ± 0.2°, 25.01° ± 0.2°, 25.45° ± 0.2°, 26.19° ± 0.2°, 26.61° ± 0.2°, 27.85° ± 0.2°, 28.15° ± 0.2°, 28.79° ± 0.2°, 29.35° ± 0.2°, 29.78° ± 0.2°, 30.13° ± 0.2°, 30.51° ± 0.2°, 31.29° ± 0.2°, 31.61° ± 0.2°, 31.92° ± 0.2°,

32.45° ± 0.2° and 35.41° ± 0.2°.

12. The crystalline form of claim 2, wherein the crystalline form is form B having an X-ray powder diffraction (XRPD) pattern substantially the same as shown in Figure 3.

13. The crystalline form of claim 2, wherein the crystalline form is form B having a differential scanning calorimetry (DSC) thermogram comprising an endothermic peak at about 165.8 °C ± 3 °C.

14. The crystalline form of claim 2, wherein the crystalline form is form B having a differential scanning calorimetry (DSC) thermogram substantially the same as shown in Figure 4.

15. The crystalline form of claim 2, wherein the crystalline form is form C having an X-ray powder diffraction (XRPD) pattern comprising peaks expressed in degrees 2θ at 5.39° ± 0.2°, 13.25° ± 0.2°, 16.00° ± 0.2°, 17.27° ± 0.2°, 21.33° ± 0.2°, 21.92° ± 0.2°, 22.53° ± 0.2°, 23.47° ± 0.2°, 26.56° ± 0.2°, 26.87° ± 0.2°, 29.41° ± 0.2° and 32.22° ± 0.2°.

16. The crystalline form of claim 2, wherein the crystalline form is form C having an X-ray powder diffraction (XRPD) pattern comprising peaks expressed in degrees 2θ at 5.39° ± 0.2°, 13.25° ± 0.2°, 16.00° ± 0.2°, 17.27° ± 0.2°, 20.31° ± 0.2°, 21.33° ± 0.2°, 21.92° ± 0.2°, 22.53° ± 0.2°, 23.47° ± 0.2°, 23.58° ± 0.2°, 26.56° ± 0.2°, 26.87° ± 0.2°, 29.41° ± 0.2°, 30.52° ± 0.2°, 31.35° ± 0.2°, 32.05° ± 0.2° and 32.22° ± 0.2°.

17. The crystalline form of claim 2, wherein the crystalline form is form C having an X-ray powder diffraction (XRPD) pattern comprising peaks expressed in degrees 2θ at 5.39° ± 0.2°, 10.42° ± 0.2°, 10.69° ± 0.2°, 12.04° ± 0.2°, 13.25° ± 0.2°, 13.56° ± 0.2°, 16.00° ± 0.2°, 17.27° ± 0.2°, 19.61° ± 0.2°, 19.86° ± 0.2°, 20.02° ± 0.2°, 20.31° ± 0.2°, 21.33° ± 0.2°, 21.92° ± 0.2°, 22.17° ± 0.2°, 22.29° ± 0.2°, 22.53° ± 0.2°, 23.47° ± 0.2°, 23.58° ± 0.2°, 24.35° ± 0.2°, 24.96° ± 0.2°, 25.10° ± 0.2°, 26.39° ± 0.2°, 26.56° ± 0.2°, 26.87° ± 0.2°, 27.25° ± 0.2°, 27.64° ± 0.2°, 29.41° ± 0.2°, 29.90° ± 0.2°, 30.31° ± 0.2°,

30.52° ± 0.2°, 31.35° ± 0.2°, 32.05° ± 0.2°, 32.22° ± 0.2°, 32.96° ± 0.2°, 33.71° ± 0.2°, 34.11° ± 0.2°, 34.88° ± 0.2°, 36.23° ± 0.2° and 36.46° ± 0.2°.

18. The crystalline form of claim 2, wherein the crystalline form is form C having an X-ray powder diffraction (XRPD) pattern substantially the same as shown in Figure 5.

19. The crystalline form of claim 2 , wherein the crystalline form is form C having a differential scanning calorimetry (DSC) thermogram comprising an endothermic peak at about 172.6 °C ± 3 °C.

20. The crystalline form of claim 2, wherein the crystalline form is form C having a differential scanning calorimetry (DSC) thermogram substantially the same as shown in Figure 6.

21. The crystalline form of claim 2, wherein the crystalline form is form G having an X-ray powder diffraction (XRPD) pattern comprising peaks expressed in degrees 2θ at 16.47° ± 0.2°, 19.40° ± 0.2°, 20.61° ± 0.2°, 22.37° ± 0.2°, 22.82° ± 0.2°, 23.21° ± 0.2°, 25.66° ± 0.2°, 25.94° ± 0.2°, 26.87° ± 0.2°, 27.02° ± 0.2°, 28.11° ± 0.2° and 30.27° ± 0.2°.

22. The crystalline form of claim 2, wherein the crystalline form is form G having an X-ray powder diffraction (XRPD) pattern comprising peaks expressed in degrees 2θ at 9.99° ± 0.2°, 10.30° ± 0.2°, 16.47° ± 0.2°, 17.30° ± 0.2°, 19.40° ± 0.2°, 20.61° ± 0.2°, 21.26° ± 0.2°, 22.37° ± 0.2°, 22.82° ± 0.2°, 23.21° ± 0.2°, 23.58° ± 0.2°, 25.66° ± 0.2°, 25.94° ± 0.2°, 26.87° ± 0.2°, 27.02° ± 0.2°, 27.18° ± 0.2°, 28.11° ± 0.2°, 28.40° ± 0.2°, 29.98° ± 0.2°, 30.27° ± 0.2°, 31.14° ± 0.2°, 32.42° ± 0.2°, 33.11° ± 0.2° and 33.34° ± 0.2°.

23. The crystalline form of claim 2, wherein the crystalline form is form G having an X-ray powder diffraction (XRPD) pattern comprising peaks expressed in degrees 2θ at 7.07° ± 0.2°, 7.80° ± 0.2°, 9.99° ± 0.2°, 10.30° ± 0.2°, 11.14° ± 0.2°, 14.20° ± 0.2°, 15.36° ± 0.2°, 16.47° ± 0.2°, 17.30° ± 0.2°, 19.40° ± 0.2°, 19.73° ± 0.2°, 19.85° ± 0.2°,

20.40° ± 0.2°, 20.61° ± 0.2°, 21.26° ± 0.2°, 22.37° ± 0.2°, 22.82° ± 0.2°, 23.21° ± 0.2°, 23.58° ± 0.2°, 23.83° ± 0.2°, 24.58° ± 0.2°, 25.66° ± 0.2°, 25.94° ± 0.2°, 26.87° ± 0.2°, 27.02° ± 0.2°, 27.18° ± 0.2°, 27.79° ± 0.2°, 28.11° ± 0.2°, 28.40° ± 0.2°, 29.98° ± 0.2°, 30.27° ± 0.2°, 30.66° ± 0.2°, 31.14° ± 0.2°, 32.11° ± 0.2°, 32.42° ± 0.2°, 32.76° ± 0.2°, 33.11° ± 0.2° and 33.34° ± 0.2°.

24. The crystalline form of claim 2, wherein the crystalline form is form G having an X-ray powder diffraction (XRPD) pattern substantially the same as shown in Figure 7.

25. The crystalline form of claim 2, wherein the crystalline form is form G having a differential scanning calorimetry (DSC) thermogram comprising an endothermic peak at about 134.3 °C ± 3 °C.

26. The crystalline form of claim 2, wherein the crystalline form is form G having a differential scanning calorimetry (DSC) thermogram substantially the same as shown in Figure 8.

27. The crystalline form of claim 2, wherein the crystalline form is form H having an X-ray powder diffraction (XRPD) pattern comprising peaks expressed in degrees 2θ at 7.58° ± 0.2°, 10.29° ± 0.2°, 12.00° ± 0.2°, 19.07° ± 0.2°, 19.93° ± 0.2°, 20.78° ± 0.2°, 21.33° ± 0.2°, 21.48° ± 0.2°, 24.76° ± 0.2°, 25.59° ± 0.2°, 25.82° ± 0.2°, 26.01° ± 0.2° and 26.58° ± 0.2°.

28. The crystalline form of claim 2, wherein the crystalline form is form H having an X-ray powder diffraction (XRPD) pattern comprising peaks expressed in degrees 2θ at 7.58° ± 0.2°, 10.29° ± 0.2°, 12.00° ± 0.2°, 14.78° ± 0.2°, 17.69° ± 0.2°, 18.32° ± 0.2°, 19.07° ± 0.2°, 19.93° ± 0.2°, 20.13° ± 0.2°, 20.78° ± 0.2°, 21.33° ± 0.2°, 21.48° ± 0.2°, 22.60° ± 0.2°, 24.40° ± 0.2°, 24.58° ± 0.2°, 24.76° ± 0.2°, 25.59° ± 0.2°, 25.82° ± 0.2°, 26.01° ± 0.2°, 26.58° ± 0.2°, 27.15° ± 0.2°, 27.31° ± 0.2°, 27.49° ± 0.2°, 27.78° ± 0.2°, 31.69° ± 0.2° and 31.98° ± 0.2°.

29. The crystalline form of claim 2, wherein the crystalline form is form H having an

X-ray powder diffraction (XRPD) pattern comprising peaks expressed in degrees 2θ at 7.58° ± 0.2°, 10.29° ± 0.2°, 12.00° ± 0.2°, 14.78° ± 0.2°, 15.83° ± 0.2°, 16.49° ± 0.2°, 17.69° ± 0.2°, 18.32° ± 0.2°, 19.07° ± 0.2°, 19.24° ± 0.2°, 19.93° ± 0.2°, 20.13° ± 0.2°, 20.78° ± 0.2°, 21.33° ± 0.2°, 21.48° ± 0.2°, 21.88° ± 0.2°, 22.35° ± 0.2°, 22.60° ± 0.2°, 23.37° ± 0.2°, 23.77° ± 0.2°, 24.40° ± 0.2°, 24.58° ± 0.2°, 24.76° ± 0.2°, 25.59° ± 0.2°, 25.82° ± 0.2°, 26.01° ± 0.2°, 26.58° ± 0.2°, 27.15° ± 0.2°, 27.31° ± 0.2°, 27.49° ± 0.2°, 27.78° ± 0.2°, 29.28° ± 0.2°, 29.77° ± 0.2°, 30.17° ± 0.2°, 31.69° ± 0.2°, 31.98° ± 0.2°, 32.30° ± 0.2° and 33.28° ± 0.2°.

30. The crystalline form of claim 2, wherein the crystalline form is form H having an X-ray powder diffraction (XRPD) pattern substantially the same as shown in Figure 9.

31. The crystalline form of claim 2, wherein the crystalline form is form H having a differential scanning calorimetry (DSC) thermogram comprising an endothermic peak at about 132.1 °C ± 3 °C.

32. The crystalline form of claim 2, wherein the crystalline form is form H having a differential scanning calorimetry (DSC) thermogram substantially the same as shown in Figure 10.

33. The crystalline form of claim 2, wherein the crystalline form is form I having an X-ray powder diffraction (XRPD) pattern comprising peaks expressed in degrees 2θ at 9.41° ± 0.2°, 17.59° ± 0.2°, 21.37° ± 0.2°, 21.72° ± 0.2°, 22.15° ± 0.2°, 22.50° ± 0.2°, 23.90° ± 0.2°, 24.59° ± 0.2°, 24.99° ± 0.2°, 26.32° ± 0.2°, 27.09° ± 0.2°, 29.68° ± 0.2° and 30.53° ± 0.2°.

34. The crystalline form of claim 2, wherein the crystalline form is form I having an X-ray powder diffraction (XRPD) pattern comprising peaks expressed in degrees 2θ at 9.41° ± 0.2°, 10.13° ± 0.2°, 12.64° ± 0.2°, 13.04° ± 0.2°, 17.59° ± 0.2°, 21.37° ± 0.2°, 21.72° ± 0.2°, 21.90° ± 0.2°, 22.15° ± 0.2°, 22.50° ± 0.2°, 23.76° ± 0.2°, 23.90° ± 0.2°, 24.59° ± 0.2°, 24.99° ± 0.2°, 26.32° ± 0.2°, 26.95° ± 0.2°, 27.09° ± 0.2°, 27.90° ± 0.2°, 28.54° ± 0.2°, 29.10° ± 0.2°, 29.68° ± 0.2°, 30.53° ± 0.2°, 32.18° ± 0.2° and 33.03° ±

0.2°.

35. The crystalline form of claim 2, wherein the crystalline form is form I having an X-ray powder diffraction (XRPD) pattern comprising peaks expressed in degrees 2θ at 4.41° ± 0.2°, 9.26° ± 0.2°, 9.41° ± 0.2°, 10.13° ± 0.2°, 11.25° ± 0.2°, 12.64° ± 0.2°, 13.04° ± 0.2°, 17.59° ± 0.2°, 18.29° ± 0.2°, 20.17° ± 0.2°, 20.29° ± 0.2°, 21.37° ± 0.2°, 21.72° ± 0.2°, 21.90° ± 0.2°, 22.15° ± 0.2°, 22.50° ± 0.2°, 23.76° ± 0.2°, 23.90° ± 0.2°, 24.59° ± 0.2°, 24.99° ± 0.2°, 25.71° ± 0.2°, 26.32° ± 0.2°, 26.95° ± 0.2°, 27.09° ± 0.2°, 27.66° ± 0.2°, 27.90° ± 0.2°, 28.54° ± 0.2°, 29.10° ± 0.2°, 29.68° ± 0.2°, 30.53° ± 0.2°, 30.93° ± 0.2°, 32.18° ± 0.2°, 33.03° ± 0.2° and 33.56° ± 0.2°.

36. The crystalline form of claim 2, wherein the crystalline form is form I having an X-ray powder diffraction (XRPD) pattern substantially the same as shown in Figure 11.

37. The crystalline form of claim 2, wherein the crystalline form is form I having a differential scanning calorimetry (DSC) thermogram comprising an endothermic peak at about 82.0 °C ± 3 °C.

38. The crystalline form of claim 2, wherein the crystalline form is form I having a differential scanning calorimetry (DSC) thermogram substantially the same as shown in Figure 12.

39. A pharmaceutical composition comprising the crystalline form of any one of claims 1 to 38; and a pharmaceutically acceptable carrier, excipient, diluent, adjuvant, vehicle or a combination thereof.

40. Use of the crystalline form of any one of claims 1 to 38 or the pharmaceutical composition of claim 39 for the manufacture of a medicament for preventing, managing, treating or lessening a viral disease in a patient.

41. The use according to claim 40, wherein the viral disease is hepatitis B infection or a disease caused by hepatitis B infection.

42. The use according to claim 40, wherein the disease caused by hepatitis B infection is cirrhosis or hepatocellular carcinoma.

43. A method of preventing, managing, treating or lessening the severity of viral diseases in a patient comprising administering to the patient with a therapeutically effective amount of the crystalline form of any one of claims 1-38 or the pharmaceutical composition of claim 39.

44. The method of claim 43, wherein the viral diseases are hepatitis B infection or a disease caused by hepatitis B infection.

45. The method of claim 44, wherein the disease caused by hepatitis B infection is cirrhosis or hepatocellular carcinoma.

46. The crystalline form according to any one of claims 1-38 or the pharmaceutical composition according to claim 39 for use in preventing, managing, treating or lessening a viral disease.

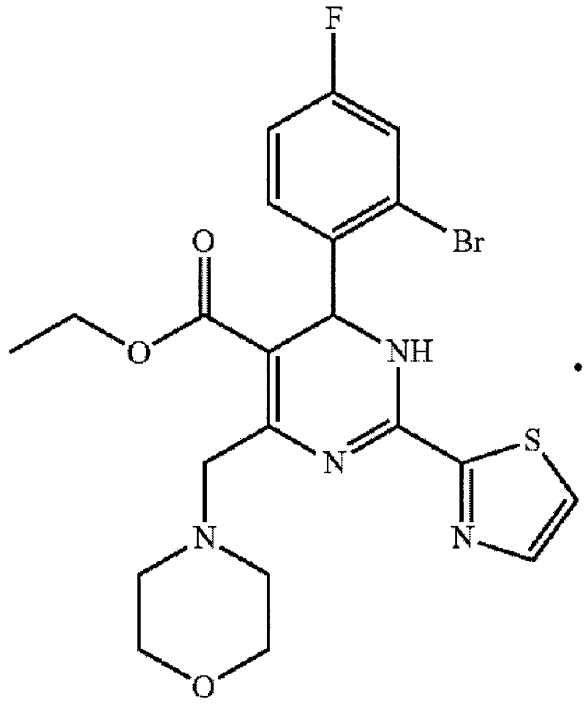
47. The crystalline form or the pharmaceutical composition according to claim 46, wherein the viral disease is hepatitis B infection or a disease caused by hepatitis B infection.

48. The crystalline form or the pharmaceutical composition according to claim 47, wherein the disease caused by hepatitis B infection is cirrhosis or hepatocellular carcinoma.

CLAIMS

1. A crystalline form of the compound of formula (I):

(I)



$\cdot CH_3SO_3H$,

or a tautomer or a combination thereof, wherein the crystalline form is form A, form B, form C, form G, form H, form I or a combination thereof.

2. The crystalline form of claim 1, wherein the crystalline form is form A having an X-ray powder diffraction (XRPD) pattern comprising peaks expressed in degrees 2θ at 6.57°±0.2°, 13.13°±0.2°, 13.38°±0.2°, 19.73°±0.2°, 20.18°±0.2°, 20.90°±0.2°, 24.90°±0.2°, 26.63°±0.2° and 29.01°±0.2°.

3. The crystalline form of claim 1, wherein the crystalline form is form A having an X-ray powder diffraction (XRPD) pattern comprising peaks expressed in degrees 2θ at 6.57°±0.2°, 13.13°±0.2°, 13.38°±0.2°, 19.73°±0.2°,

20.18°±0.2°, 20.90°±0.2°, 22.43°±0.2°, 24.38°±0.2°, 24.90°±0.2°, 26.63°±0.2°, 27.93°±0.2° and 29.01°±0.2°.

4. The crystalline form of claim **1**, wherein the crystalline form is form A having an X-ray powder diffraction (XRPD) pattern comprising peaks expressed in degrees 2θ at 6.57°±0.2°, 9.73°±0.2°, 11.14°±0.2°, 13.13°±0.2°, 13.38°±0.2°, 19.73°±0.2°, 20.18°±0.2°, 20.90°±0.2°, 22.43°±0.2°, 23.20°±0.2°, 24.38°±0.2°, 24.90°±0.2°, 26.63°±0.2°, 27.93°±0.2°, 29.01°±0.2°, 29.84°±0.2°, 30.78°±0.2° and 31.68°±0.2°.

5. The crystalline form of claim **1**, wherein the crystalline form is form A having a differential scanning calorimetry (DSC) thermogram comprising an endothermic peak at about 162.3° C.±3° C.

6. The crystalline form of claim **1**, wherein the crystalline form is form B having an X-ray powder diffraction (XRPD) pattern comprising peaks expressed in degrees 2θ at 6.68°±0.2°, 13.39°±0.2°, 19.65°±0.2°, 20.26°±0.2°, 22.45°±0.2°, 24.80°±0.2°, 25.01°±0.2°, 26.19°±0.2°, 26.61°±0.2° and 28.79°±0.2°.

7. The crystalline form of claim **1**, wherein the crystalline form is form B having an X-ray powder diffraction (XRPD) pattern comprising peaks expressed in degrees 2θ at 6.68°±0.2°, 9.77°±0.2°, 9.98°±0.2°, 11.88°±0.2°, 13.39°±0.2°, 16.65°±0.2°, 17.66°±0.2°, 19.08°±0.2°, 19.65°±0.2°, 20.26°±0.2°, 20.81°±0.2°, 20.97°±0.2°, 22.45°±0.2°, 24.80°±0.2°, 25.01°±0.2°, 26.19°±0.2°, 26.61°±0.2°, 28.79°±0.2°, 29.78°±0.2°, 30.13°±0.2°, 31.61° 0.2°, 31.92°±0.2° and 32.45°±0.2°.

8. The crystalline form of claim **1**, wherein the crystalline form is form B having an X-ray powder diffraction (XRPD) pattern comprising peaks expressed in degrees 2θ at 6.68°±0.2°, 9.77°±0.2°, 9.98°±0.2°, 11.88°±0.2°, 13.39°±0.2°, 14.62°±0.2°, 16.65°±0.2°, 17.66°±0.2°, 19.08°±0.2°, 19.65°±0.2°, 20.26°±0.2°, 20.81°±0.2°, 20.97°±0.2°, 22.07°±0.2°, 22.45°±0.2°, 24.80°±0.2°, 25.01°±0.2°, 25.45°±0.2°, 26.19°±0.2°, 26.61°±0.2°, 27.85°±0.2°, 28.15°±0.2°, 28.79°±0.2°, 29.35°±0.2°, 29.78°±0.2°, 30.13°±0.2°, 30.51°±0.2°, 31.29°±0.2°, 31.61°±0.2°, 31.92°±0.2°, 32.45°±0.2° and 35.41°±0.2°.

9. The crystalline form of claim **1**, wherein the crystalline form is form B having a differential scanning calorimetry (DSC) thermogram comprising an endothermic peak at about 165.8° C.±3° C.

10. The crystalline form of claim **1**, wherein the crystalline form is form C having an X-ray powder diffraction (XRPD) pattern comprising peaks expressed in degrees 2θ at 5.39°±0.2°, 13.25°±0.2°, 16.00°±0.2°, 17.27°±0.2°, 21.33°±0.2°, 21.92°±0.2°, 22.53°±0.2°, 23.47°±0.2°, 26.56°±0.2°, 26.87°±0.2°, 29.41°±0.2° and 32.22°±0.2°.

11. The crystalline form of claim **1**, wherein the crystalline form is form C having an X-ray powder diffraction (XRPD) pattern comprising peaks expressed in degrees 2θ at 5.39°±0.2°, 13.25°±0.2°, 16.00°±0.2°, 17.27°±0.2°, 20.31°±0.2°, 21.33°±0.2°, 21.92°±0.2°, 22.53°±0.2°, 23.47°±0.2°, 23.58°±0.2°, 26.56°±0.2°, 26.87°±0.2°, 29.41°±0.2°, 30.52°±0.2°, 31.35°±0.2°, 32.05°±0.2° and 32.22°±0.2°.

12. The crystalline form of claim **1**, wherein the crystalline form is form C having an X-ray powder diffraction (XRPD) pattern comprising peaks expressed in degrees 2θ at 5.39°±0.2°, 10.42°±0.2°, 10.69°±0.2°, 12.04°±0.2°, 13.25°±0.2°, 13.56°±0.2°, 16.00°±0.2°, 17.27°±0.2°, 19.61°±0.2°, 19.86°±0.2°, 20.02°±0.2°, 20.31°±0.2°, 21.33°±0.2°, 21.92°±0.2°, 22.17°±0.2°, 22.29°±0.2°, 22.53°±0.2°, 23.47°±0.2°, 23.58°±0.2°, 24.35°±0.2°, 24.96°±0.2°, 25.10°±0.2°, 26.39°±0.2°, 26.56°±0.2°,

26.87°±0.2°, 27.25°±0.2°, 27.64°±0.2°, 29.41°±0.2°, 29.90°±0.2°, 30.31°±0.2°, 30.52°±0.2°, 31.35°±0.2°, 32.05°±0.2°, 32.22°±0.2°, 32.96°±0.2°, 33.71°±0.2°, 34.11°±0.2°, 34.88°±0.2°, 36.23°±0.2° and 36.46°±0.2°.

13. The crystalline form of claim **1**, wherein the crystalline form is form C having a differential scanning calorimetry (DSC) thermogram comprising an endothermic peak at about 172.6° C.±3° C.

14. The crystalline form of claim **1**, wherein the crystalline form is form G having an X-ray powder diffraction (XRPD) pattern comprising peaks expressed in degrees 2θ at 16.47°±0.2°, 19.40°±0.2°, 20.61°±0.2°, 22.37°±0.2°, 22.82°±0.2°, 23.21°±0.2°, 25.66°±0.2°, 25.94°±0.2°, 26.87°±0.2°, 27.02°±0.2°, 28.11°±0.2° and 30.27°±0.2°.

15. The crystalline form of claim **1**, wherein the crystalline form is form G having an X-ray powder diffraction (XRPD) pattern comprising peaks expressed in degrees 2θ at 9.99°±0.2°, 10.30°±0.2°, 16.47°±0.2°, 17.30°±0.2°, 19.40°±0.2°, 20.61°±0.2°, 21.26°±0.2°, 22.37°±0.2°, 22.82°±0.2°, 23.21°±0.2°, 23.58°±0.2°, 25.66°±0.2°, 25.94°±0.2°, 26.87°±0.2°, 27.02°±0.2°, 27.18°±0.2°, 28.11°±0.2°, 28.40°±0.2°, 29.98°±0.2°, 30.27°±0.2°, 31.14°±0.2°, 32.42°±0.2°, 33.11°±0.2° and 33.34°±0.2°.

16. The crystalline form of claim **1**, wherein the crystalline form is form G having an X-ray powder diffraction (XRPD) pattern comprising peaks expressed in degrees 2θ at 7.07°±0.2°, 7.80°±0.2°, 9.99°±0.2°, 10.30°±0.2°, 11.14°±0.2°, 14.20°±0.2°, 15.36°±0.2°, 16.47°±0.2°, 17.30°±0.2°, 19.40°±0.2°, 19.73°±0.2°, 19.85°±0.2°, 20.40°±0.2°, 20.61°±0.2°, 21.26°±0.2°, 22.37°±0.2°, 22.82°±0.2°, 23.21°±0.2°, 23.58°±0.2°, 23.83°±0.2°, 24.58°±0.2°, 25.66°±0.2°, 25.94°±0.2°, 26.87°±0.2°, 27.02°±0.2°, 27.18°±0.2°, 27.79°±0.2°, 28.11°±0.2°, 28.40°±0.2°, 29.98°±0.2°, 30.27°±0.2°, 30.66°±0.2°, 31.14°±0.2°, 32.11°±0.2°, 32.42°±0.2°, 32.76°±0.2°, 33.11°±0.2° and 33.34°±0.2°.

17. The crystalline form of claim **1**, wherein the crystalline form is form G having a differential scanning calorimetry (DSC) thermogram comprising an endothermic peak at about 134.3° C.±3° C.

18. The crystalline form of claim **1**, wherein the crystalline form is form H having an X-ray powder diffraction (XRPD) pattern comprising peaks expressed in degrees 2θ at 7.58°±0.2°, 10.29°±0.2°, 12.00°±0.2°, 19.07°±0.2°, 19.93°±0.2°, 20.78°±0.2°, 21.33°±0.2°, 21.48°±0.2°, 24.76°±0.2°, 25.59°±0.2°, 25.82°±0.2°, 26.01°±0.2° and 26.58°±0.2°.

19. The crystalline form of claim **1**, wherein the crystalline form is form H having an X-ray powder diffraction (XRPD) pattern comprising peaks expressed in degrees 2θ at 7.58°±0.2°, 10.29°±0.2°, 12.00°±0.2°, 14.78°±0.2°, 17.69°±0.2°, 18.32°±0.2°, 19.07°±0.2°, 19.93°±0.2°, 20.13°±0.2°, 20.78°±0.2°, 21.33°±0.2°, 21.48°±0.2°, 22.60°±0.2°, 24.40°±0.2°, 24.58°±0.2°, 24.76°±0.2°, 25.59°±0.2°, 25.82°±0.2°, 26.01°±0.2°, 26.58°±0.2°, 27.15°±0.2°, 27.31°±0.2°, 27.49°±0.2°, 27.78°±0.2°, 31.69°±0.2° and 31.98°±0.2°.

20. The crystalline form of claim **1**, wherein the crystalline form is form H having an X-ray powder diffraction (XRPD) pattern comprising peaks expressed in degrees 2θ at 7.58°±0.2°, 10.29°±0.2°, 12.00°±0.2°, 14.78°±0.2°, 15.83°±0.2°, 16.49°±0.2°, 17.69°±0.2°, 18.32°±0.2°, 19.07°±0.2°, 19.24°±0.2°, 19.93°±0.2°, 20.13°±0.2°, 20.78°±0.2°, 21.33°±0.2°, 21.48°±0.2°, 21.88°±0.2°, 22.35°±0.2°, 22.60°±0.2°, 23.37°±0.2°, 23.77°±0.2°, 24.40°±0.2°, 24.58°±0.2°, 24.76°±0.2°, 25.59°±0.2°, 25.82°±0.2°, 26.01°±0.2°, 26.58°±0.2°, 27.15°±0.2°,

27.31°±0.2°, 27.49°±0.2°, 27.78°±0.2°, 29.28°±0.2°, 29.77°±0.2°, 30.17°±0.2°, 31.69°±0.2°, 31.98°±0.2°, 32.30°±0.2° and 33.28°±0.2°.

21. The crystalline form of claim **1**, wherein the crystalline form is form H having a differential scanning calorimetry (DSC) thermogram comprising an endothermic peak at about 132.1° C.±3° C.

22. The crystalline form of claim **1**, wherein the crystalline form is form I having an X-ray powder diffraction (XRPD) pattern comprising peaks expressed in degrees 2θ at 9.41°±0.2°, 17.59°±0.2°, 21.37°±0.2°, 21.72°±0.2°, 22.15°±0.2°, 22.50°±0.2°, 23.90°±0.2°, 24.59°±0.2°, 24.99°±0.2°, 26.32°±0.2°, 27.09°±0.2°, 29.68°±0.2° and 30.53°±0.2°.

23. The crystalline form of claim **1**, wherein the crystalline form is form I having an X-ray powder diffraction (XRPD) pattern comprising peaks expressed in degrees 2θ at 9.41°±0.2°, 10.13°±0.2°, 12.64°±0.2°, 13.04°±0.2°, 17.59°±0.2°, 21.37°±0.2°, 21.72°±0.2°, 21.90°±0.2°, 22.15°±0.2°, 22.50°±0.2°, 23.76°±0.2°, 23.90°±0.2°, 24.59°±0.2°, 24.99°±0.2°, 26.32°±0.2°, 26.95°±0.2°, 27.09°±0.2°, 27.90°±0.2°, 28.54°±0.2°, 29.10°±0.2°, 29.68°±0.2°, 30.53°±0.2°, 32.18°±0.2° and 33.03°±0.2°.

24. The crystalline form of claim **1**, wherein the crystalline form is form I having an X-ray powder diffraction (XRPD) pattern comprising peaks expressed in degrees 2θ at 4.41°±0.2°, 9.26°±0.2°, 9.41°±0.2°, 10.13°±0.2°, 11.25°±0.2°, 12.64°±0.2°, 13.04°±0.2°, 17.59°±0.2°, 18.29°±0.2°, 20.17°±0.2°, 20.29°±0.2°, 21.37°±0.2°, 21.72°±0.2°, 21.90°±0.2°, 22.15°±0.2°, 22.50°±0.2°, 23.76°±0.2°, 23.90°±0.2°, 24.59°±0.2°, 24.99°±0.2°, 25.71°±0.2°, 26.32°±0.2°, 26.95°±0.2°, 27.09°±0.2°, 27.66°±0.2°, 27.90°±0.2°, 28.54°±0.2°, 29.10°±0.2°, 29.68°±0.2°, 30.53°±0.2°, 30.93°±0.2°, 32.18°±0.2°, 33.03°±0.2° and 33.56°±0.2°.

25. The crystalline form of claim **1**, wherein the crystalline form is form I having a differential scanning calorimetry (DSC) thermogram comprising an endothermic peak at about 82.0° C.±3° C.

26. The crystalline form of claim **1**, wherein the crystalline form is form A having a differential scanning calorimetry (DSC) thermogram substantially the same as shown in FIG. **2**;

wherein the crystalline form is form B having a differential scanning calorimetry (DSC) thermogram substantially the same as shown in FIG. **4**;

wherein the crystalline form is form C having a differential scanning calorimetry (DSC) thermogram substantially the same as shown in FIG. **6**;

wherein the crystalline form is form G having a differential scanning calorimetry (DSC) thermogram substantially the same as shown in FIG. **8**;

wherein the crystalline form is form H having a differential scanning calorimetry (DSC) thermogram substantially the same as shown in FIG. **10**; or

wherein the crystalline form is form I having a differential scanning calorimetry (DSC) thermogram substantially

the same as shown in FIG. **12**.

27. A pharmaceutical composition comprising the crystalline form of claim **1**; and a pharmaceutically acceptable carrier, excipient, diluent, adjuvant, vehicle or a combination thereof.

28. The crystalline form of claim **1**, wherein the crystalline form is form A having an X-ray powder diffraction (XRPD) pattern substantially the same as shown in FIG. **1**;

wherein the crystalline form is form B having an X-ray powder diffraction (XRPD) pattern substantially the same as shown in FIG. **3**;

wherein the crystalline form is form C having an X-ray powder diffraction (XRPD) pattern substantially the same as shown in FIG. **5**;

wherein the crystalline form is form G having an X-ray powder diffraction (XRPD) pattern substantially the same as shown in FIG. **7**;

wherein the crystalline form is form H having an X-ray powder diffraction (XRPD) pattern substantially the same as shown in FIG. **9**; or

wherein the crystalline form is form I having an X-ray powder diffraction (XRPD) pattern substantially the same as shown in FIG. **11**.