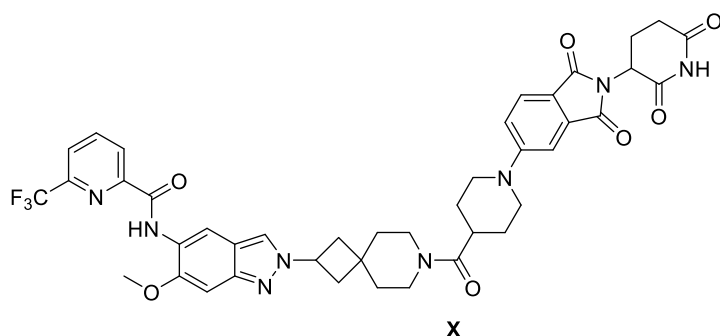


## ABSTRACT

Provided are crystal forms of a compound having fused five- and six-membered rings, a preparation method therefor, and the use thereof. Particularly provided are a crystal form A, a crystal form B, a crystal form C, a crystal form D, a crystal form F, a crystal form G, a crystal form H, a crystal form I or a crystal form J of said compound represented by formula X. The X-ray powder diffraction pattern of the crystal form A using Cu-K $\alpha$  radiation and represented by  $2\theta$  has diffraction peaks at  $6.9 \pm 0.2^\circ$ ,  $11.2 \pm 0.2^\circ$ ,  $12.2 \pm 0.2^\circ$ ,  $13.7 \pm 0.2^\circ$ ,  $17.3 \pm 0.2^\circ$ ,  $18.2 \pm 0.2^\circ$ , and  $24.3 \pm 0.2^\circ$ . The crystal forms of said compound have IRAK4 inhibition or/and degradation effects, have potential value in clinical application, and are expected to be capable of improving the prognosis of patients and reducing the possibility of drug resistance; in addition, said crystal forms have good solubility, physical and chemical stability and mechanical stability.



15 (Figure 2)