

Table S1 The PXRD peak positions of solid forms of deferasirox.

Solid forms	2θ values
DFX	6.6°, 10.1°, 10.6°, 13.2°, 14.1°, 15.4°, 16.6°, 23.2°, 25.7°, 26.2°
DFX-H ₂ O	10.0°, 10.5°, 11.9°, 13.4°, 15.6°, 19.2°, 22.6°, 24.8°, 25.8°, 26.7°, 27.8°;
DFX-DMF	5.3°, 9.9°, 10.6°, 16.0°, 16.6°, 17.6°, 20.6°, 22.5°, 24.0°, 24.4°, 33.6°.
DFX-INA	4.9°, 9.6°, 10.7°, 13.7°, 15.5°, 24.4°, 25.4°, 26.0°, 26.8°, 28.1°.
DFX-2INA	4.8°, 11.2°, 16.5°, 22.9°, 23.4°, 24.1°, 25.1°, 25.9°, 26.8°, 27.6°.

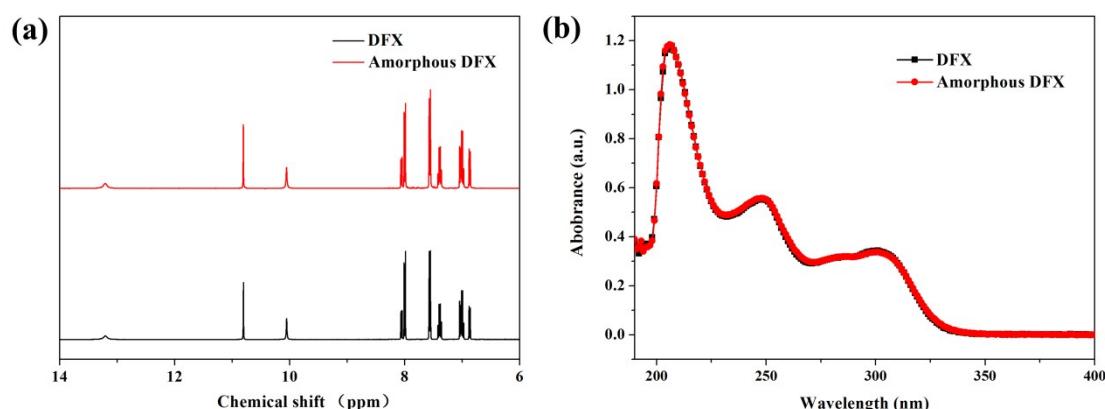


Fig. S1 (a) The ¹H NMR spectra of amorphous DFX and commercial DFX; (b) the UV–Vis absorption spectra of amorphous DFX and commercial DFX.

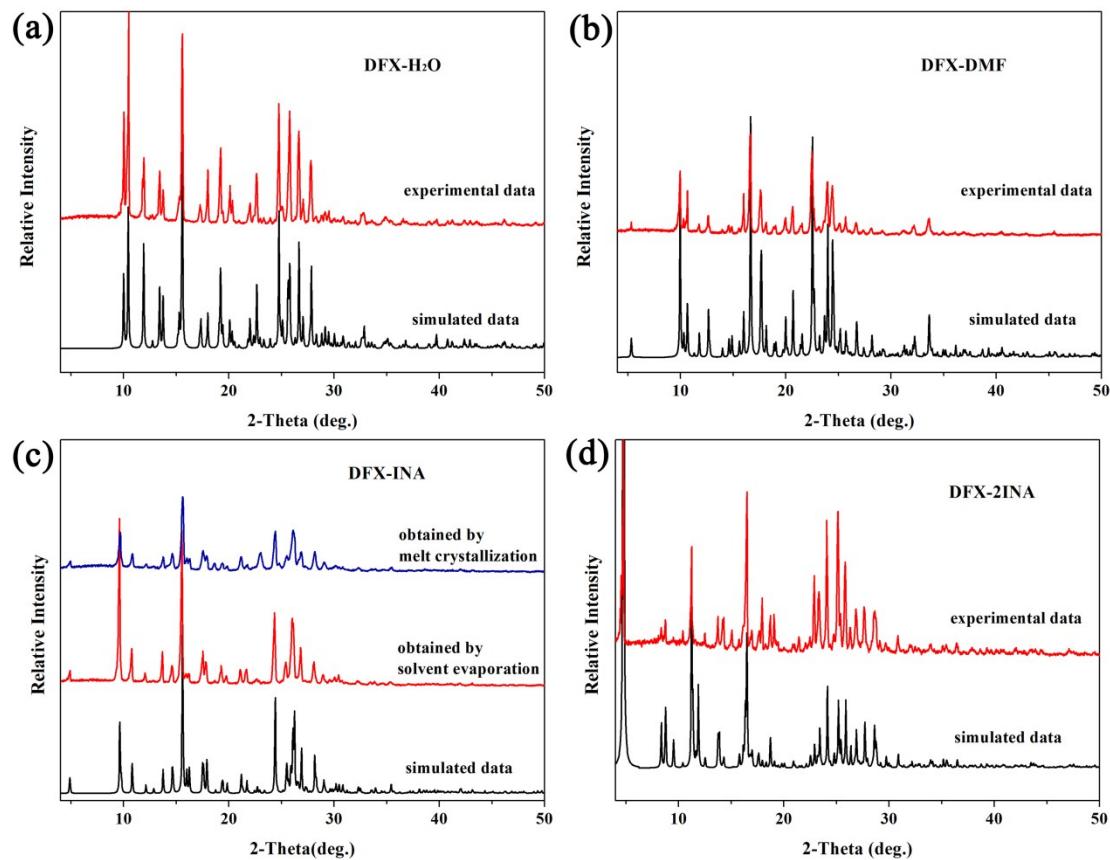


Fig. S2 The PXRD patterns of (a) DFX-H₂O, (b) DFX-DMF, (c) DFX-INA and (d) DFX-2INA matched with the corresponding simulated patterns.

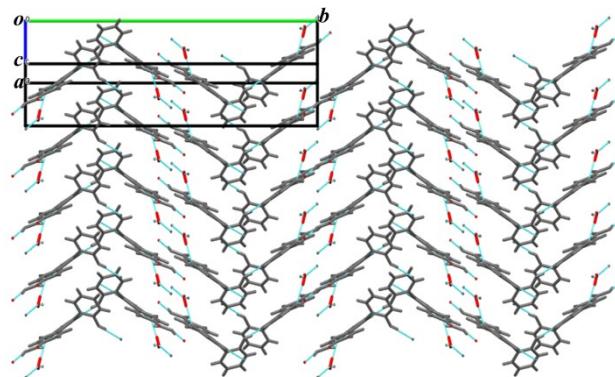


Fig. S3 Packing diagram of DFX-H₂O (DFX and H₂O molecules are expressed in gray and red color, respectively).

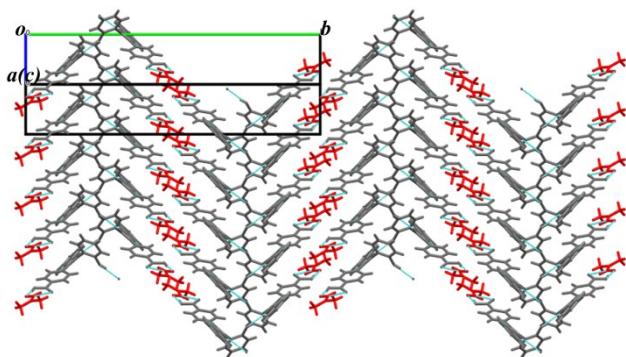


Fig. S4 Packing diagram of DFX-DMF (DFX and DMF molecules are expressed in gray and red color, respectively).

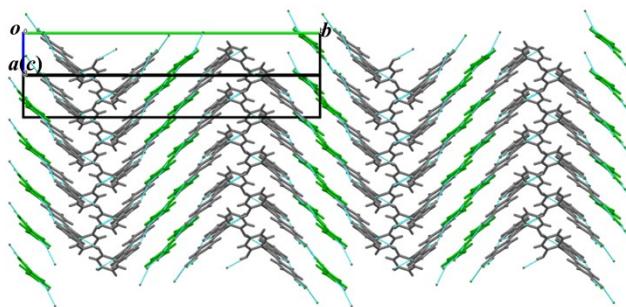


Fig. S5 Packing diagram of DFX-INA (DFX and INA molecules are expressed in gray and green color, respectively).

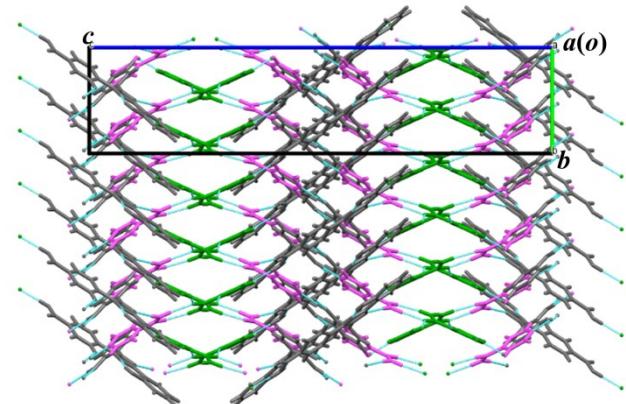


Fig. S6 Packing diagram of DFX-2INA (DFX, I-INA, and II-INA molecules are expressed in gray, green, and pink color, respectively).

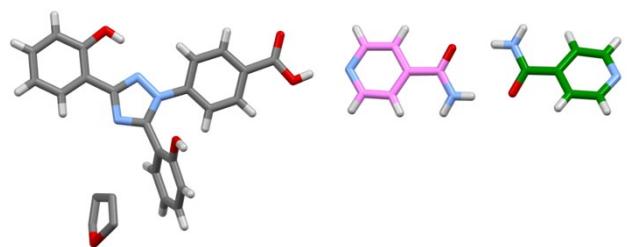


Fig. S7 The single crystal structure of DFX-2INA without eliminating the THF carbon skeleton.

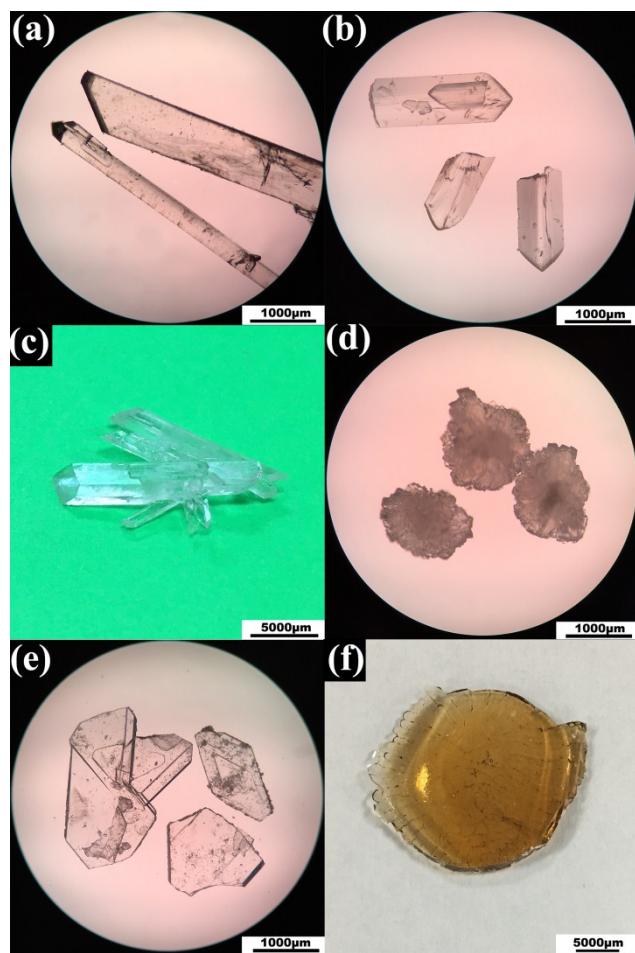


Fig. S8 Morphological images of (a) commercial DFX crystallized from methanol, (b) DFX-H₂O, (c) DFX-DMF, (d) DFX-INA, (e) DFX-2INA, and (f) amorphous DFX obtained by melt quenching.

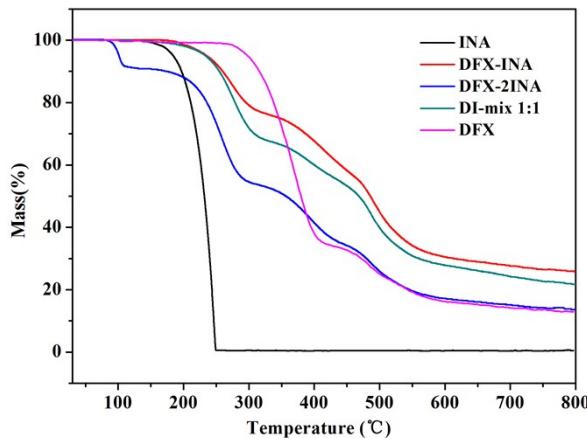


Fig. S9 TGA curves of DFX, INA DFX-INA, DFX-2INA and DI-mix 1:1.

Table S2 The cumulative drug release percentages of the three DFX solid forms

Time point / min	cumulative drug release percentage / %					
	DFX in PBS	DFX in H ₂ O	Amorphous DFX in PBS	Amorphous DFX in H ₂ O	DFX-INA in PBS	DFX-INA in H ₂ O
0	0.00	0.00	0.00	0.00	0.00	0.00
2	2.43	--	7.39	--	11.60	--
5	7.43	--	23.31	--	32.76	--
10	16.01	2.01	45.70	1.88	51.50	0.70
20	25.22	3.93	62.96	3.80	63.35	1.38
30	32.80	5.17	69.53	5.18	67.32	2.07
40	38.54	5.87	73.78	6.40	70.59	2.80
60	46.09	6.43	76.62	8.42	73.40	3.96
120	60.16	6.79	82.89	12.53	79.62	6.64
180	68.36	7.23	83.26	15.56	83.09	8.50
240	74.00	7.70	87.61	16.94	84.56	9.56