Solvates of an antifungal drug, griseofulvin: Structural, thermochemical and conformational analysis

Srinivasulu Aitipamula,**,a Pui Shan Chow, a and Reginald B.H. Tan**,a,b

^aInstitute of Chemical and Engineering Sciences, A*STAR (Agency for Science, Technology and Research), 1, Pesek Road, Jurong Island, Singapore, 627833. Tel: (65) 6796 3858, Fax: (65) 6316 6183.

Email: srinivasulu_aitipamula@ices.a-star.edu.sg

^bDepartment of Chemical & Biomolecular Engineering, National University of Singapore, 4 Engineering Drive 4, Singapore 117576.

Email: reginald_tan@ices.a-star.edu.sg

Electronic Supplementary Information (5 Pages)

Contents

Fig. S1	Comparison of the ¹ H NMR (in DMSO-d ₆) spectra of the 2:1 and 1:1
	solvates of GF•nitroethane
Fig. S2	An ORTEP plot of the asymmetric unit of the crystal structure of
	GF•nitroethane (1:1)
Fig. S3	Packing diagram of the crystal structure of GF•nitroethane (1:1)
Fig. S4	Comparison of the PXRD patterns of the polymorphs of GF with samples
	obtained from the desolvation experiments
Fig. S5	Scanning Election Microscopy (SEM) images of the GF and desolvated
	crystals of GF solvates

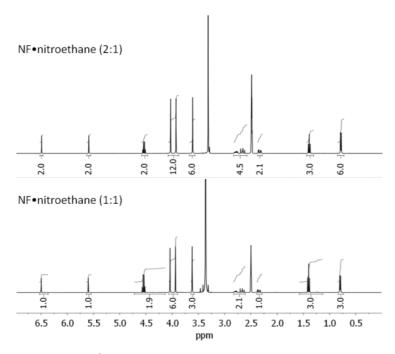


Fig. S1 Comparison of the ¹H NMR (in DMSO-d₆) spectra of the 2:1 and 1:1 solvates of GF•nitroethane. Notice the peak integration for peaks corresponding to nitroethane at 1.35 and 4.65 ppm.

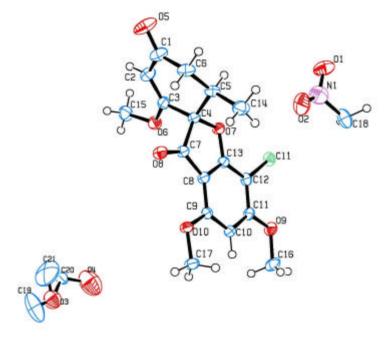


Fig. S2 An ORTEP plot of the asymmetric unit of the crystal structure of GF•nitroethane (1:1). Notice that the nitroethane molecule is disordered and could not be modelled accurately.

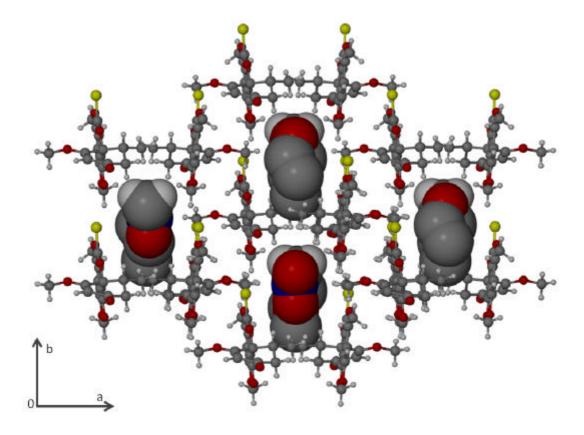


Fig. S3 Crystal structure of the GF•nitroethane (1:1) showing the disordered nitroethane molecules located in the channels formed by the GF molecules.

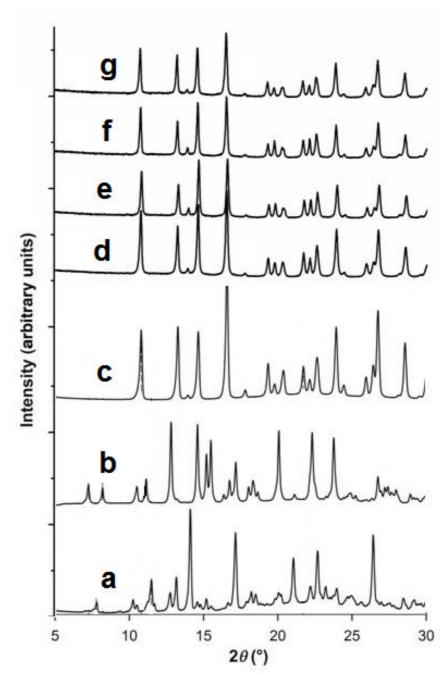
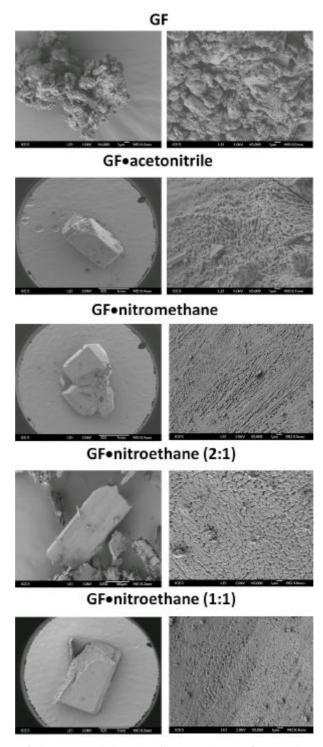


Fig. S4 Comparison of the PXRD patterns of the polymorphs of GF with samples obtained in the desolvation experiments: (a) Form III, (b) Form II, (c) Form I, (d) desolvation product of GF•acetonitrile, (e) desolvation product of GF•nitroethane, (f) desolvation product of GF•nitroethane (2:1), and (g) desolvation product of GF•nitroethane (1:1).



 $\textbf{Fig. S5} \ \text{SEM} \ \text{images of the GF} \ \text{and desolvation products of GF} \ \text{solvates}.$