

Electronic Supplementary Information

Self-Assembly of Secondary Aryl Amides in Cocrystals with Perfluoroaryl Coformers: Structural Analysis and Synthons Preferences

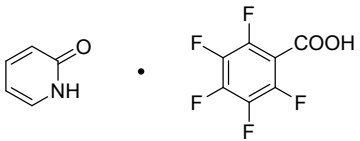
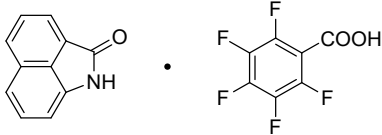
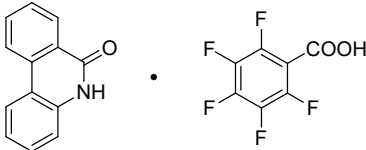
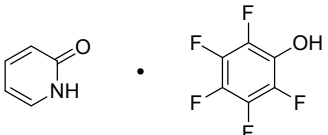
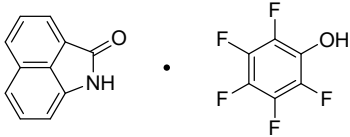
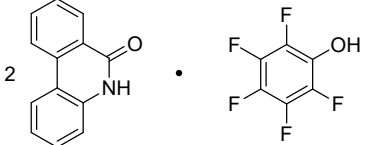
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Characteristics of cocrystals

1·pfba		colourless needles, mp 116–117°C
2·pfba		yellow needles, mp 139–141°C
3·pfba		pale yellow needles, mp 145°C (decomp.)
1·pfp		colourless plates, mp 107–109°C
2·pfp		yellow needles, mp 128–130°C
3₂·pfp		light yellow plates, mp ~250°C (decomp.) (during the measurement pentafluorophenol distils out of the crystals and deposits at the end of the measuring tube)

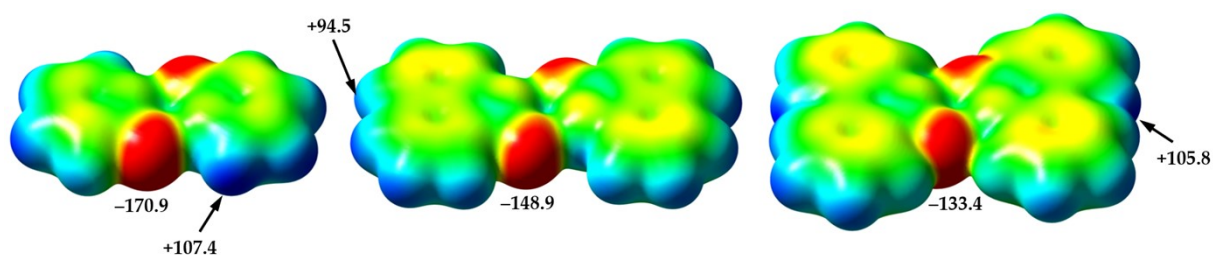


Fig. S1. Molecular electrostatic potential maps of dimers of lactams 1–3 (left to right) mapped on 0.002 au electron density isosurface. The colour scale corresponds to values ranging from -0.04 (red) to $+0.04$ au (blue). The most negative and positive electrostatic potential values (in kJ/mol) are indicated.