Tunable recognition of the steroid α-face by adjacent π-electron density

T. Friščič, R. W. Lancaster, L. Fábián, P. G. Karamertzanis

Table of contents

This file contains only the supplementary powder X-ray diffraction and reflectance FTIR data. The remainder of the Supplementary information is available from the journal website.

S8. PXRD analysis of LAG screening results 1
S8.1. Progesterone experiments 1
S8.2. Pregnenolone experiments 12
S8.3. β-estradiol experiments 23
S8.4. Estrone experiments 34
S9. FTIR-ATR solid-state spectroscopy 45

S8. PXRD analysis of LAG screening results

8.1. Progesterone experiments

Figure S8.1. Overlay of PXRD patterns (top to bottom) for: (a) pro; (b) 4-bromophenol and (c) product of LAG reaction of pro and 4-bromophenol in 1:1 stoichiometric ratio. Co-crystal forms.
Figure S8.2. Overlay of PXRD patterns (top to bottom) for: (a) pro; (b) phloroglucinol and (c) product of LAG reaction of pro and phloroglucinol in 1:1 stoichiometric ratio. Cocrystal forms.

Figure S8.3. Overlay of PXRD patterns (top to bottom) for: (a) pro; (b) 1-naphthol and (c) product of LAG reaction of pro and 1-naphthol in 1:1 stoichiometric ratio. Cocrystal forms.
Figure S8.4. Overlay of PXRD patterns (top to bottom) for: (a) pro; (b) 2-naphthol and (c) product of LAG reaction of pro and 2-naphthol in 1:1 stoichiometric ratio. Cocrystal forms.

Figure S8.5. Overlay of PXRD patterns (top to bottom) for: (a) pro; (b) 1-naphthoic acid and (c) product of LAG reaction of pro and 1-naphthoic acid in 1:1 stoichiometric ratio. Cocrystal forms.
Figure S8.6. Overlay of PXRD patterns (top to bottom) for: (a) pro; (b) 2-naphthoic acid and (c) product of LAG reaction of pro and 2-naphthoic acid in 1:1 stoichiometric ratio. Cocrystal forms.

Figure S8.7. Overlay of PXRD patterns (top to bottom) for: (a) pro; (b) 2-hydroxy-1-naphthoic acid and (c) product of LAG reaction of pro and 2-hydroxy-1-naphthoic acid in 1:1 stoichiometric ratio. Cocrystal forms.
Figure S8.8. Overlay of PXRD patterns (top to bottom) for: (a) pro; (b) 2-hydroxy-3-naphthoic acid and (c) product of LAG reaction of pro and 2-hydroxy-3-naphthoic acid in 1:1 stoichiometric ratio. Cocrystal forms.

Figure S8.9. Overlay of PXRD patterns (top to bottom) for: (a) pro; (b) 1-hydroxy-2-naphthoic acid and (c) product of LAG reaction of pro and 1-hydroxy-2-naphthoic acid in 1:1 stoichiometric ratio. Cocrystal forms.
Figure S8.10. Overlay of PXRD patterns (top to bottom) for: (a) pro; (b) pyrenol and (c) product of LAG reaction of pro and pyrenol in 1:1 stoichiometric ratio. Cocrystal forms.

Figure S8.11. Overlay of PXRD patterns (top to bottom) for: (a) pro; (b) 9-phenanthrol and (c) product of LAG reaction of pro and 9-phenanthrol in 1:1 stoichiometric ratio. Cocrystal forms.
Figure S8.12. Overlay of PXRD patterns (top to bottom) for: (a) pro; (b) 2,7-dihydroxynaphthalene and (c) product of LAG reaction of pro and 2,7-dihydroxynaphthalene in 1:1 stoichiometric ratio. Cocrystal forms.

Figure S8.13. Overlay of PXRD patterns (top to bottom) for: (a) pro; (b) gentisic acid and (c) product of LAG reaction of pro and gentisic acid in 1:1 stoichiometric ratio. Cocrystal forms.
Figure S8.14. Overlay of PXRD patterns (top to bottom) for: (a) pro; (b) phthalimide and (c) product of LAG reaction of pro and phthalimide in 1:1 stoichiometric ratio. Cocrystal forms.

Figure S8.15. Overlay of PXRD patterns (top to bottom) for: (a) pro; (b) theophylline and (c) product of LAG reaction of pro and theophylline in 1:1 stoichiometric ratio. Cocrystal does not form.
Figure S8.16. Overlay of PXRD patterns (top to bottom) for: (a) pro; (b) theobromine and (c) product of LAG reaction of pro and theobromine in 1:1 stoichiometric ratio. Cocrystal does not form.

Figure S8.17. Overlay of PXRD patterns (top to bottom) for: (a) pro; (b) naphthalene and (c) product of LAG reaction of pro and naphthalene in 1:1 stoichiometric ratio. Cocrystal forms.
Figure S8.18. Overlay of PXRD patterns (top to bottom) for: (a) pro; (b) octafluoronaphthalene and (c) product of LAG reaction of pro and octafluoronaphthalene in 1:1 stoichiometric ratio. Cocrystal does not form, and the disappearance of octafluoronaphthalene reflections is explained by amorphisation.

Figure S8.19. Overlay of PXRD patterns (top to bottom) for: (a) pro; (b) phenanthrene; (c) product of LAG reaction of pro and phenanthrene in 1:1 stoichiometric ratio and (d) (c) product of LAG reaction of pro and phenanthrene in 3:1 stoichiometric ratio. Cocrystal of composition (pro)_3·(phenanthrene) forms.
**Figure S8.20.** Overlay of PXRD patterns (top to bottom) for: (a) pro; (b) pyrene and (c) product of LAG reaction of pro and pyrene in 1:1 stoichiometric ratio. Cocrystal forms.

**Figure S8.21.** Overlay of PXRD patterns (top to bottom) for: (a) pro; (b) perylene and (c) product of LAG reaction of pro and perylene in 1:1 stoichiometric ratio. Cocrystal forms.
Figure S8.22. Overlay of PXRD patterns (top to bottom) for: (a) pro; (b) coronene and (c) product of LAG reaction of pro and coronene in 1:1 stoichiometric ratio. Cocrystal forms.

S8.2. Pregnenolone experiments

Figure S8.23. Overlay of PXRD patterns (top to bottom) for: (a) pre; (b) 4-bromophenol and (c) product of LAG reaction of pre and 4-bromophenol in 1:1 stoichiometric ratio. Cocrystal forms.
Figure S8.24. Overlay of PXRD patterns (top to bottom) for: (a) pre; (b) phloroglucinol and (c) product of LAG reaction of pre and phloroglucinol in 1:1 stoichiometric ratio. Cocrystal does not form.

Figure S8.25. Overlay of PXRD patterns (top to bottom) for: (a) pre; (b) 1-naphthol and (c) product of LAG reaction of pre and 1-naphthol in 1:1 stoichiometric ratio. Cocrystal forms.
Figure S8.26. Overlay of PXRD patterns (top to bottom) for: (a) pre; (b) 2-naphthol and (c) product of LAG reaction of pre and 2-naphthol in 1:1 stoichiometric ratio. Cocrystal forms.

Figure S8.27. Overlay of PXRD patterns (top to bottom) for: (a) pre; (b) 1-naphthoic acid and (c) product of LAG reaction of pre and 1-naphthoic acid in 1:1 stoichiometric ratio. Cocrystal does not form.
Figure S8.28. Overlay of PXRD patterns (top to bottom) for: (a) pre; (b) 2-naphthoic acid and (c) product of LAG reaction of pre and 2-naphthoic acid in 1:1 stoichiometric ratio. Cocrystal does not form.

Figure S8.29. Overlay of PXRD patterns (top to bottom) for: (a) pre; (b) 2-hydroxy-1-naphthoic acid and (c) product of LAG reaction of pre and 2-hydroxy-1-naphthoic acid in 1:1 stoichiometric ratio. Cocrystal does not form.
Figure S8.30. Overlay of PXRD patterns (top to bottom) for: (a) pre; (b) 2-hydroxy-3-naphthoic acid and (c) product of LAG reaction of pre and 2-hydroxy-3-naphthoic acid in 1:1 stoichiometric ratio. Cocrystal does not form.

Figure S8.31. Overlay of PXRD patterns (top to bottom) for: (a) pre; (b) 1-hydroxy-2-naphthoic acid and (c) product of LAG reaction of pre and 1-hydroxy-2-naphthoic acid in 1:1 stoichiometric ratio. Cocrystal does not form.
Figure S8.32. Overlay of PXRD patterns (top to bottom) for: (a) pre; (b) pyrenol and (c) product of LAG reaction of pre and pyrenol in 1:1 stoichiometric ratio. Cocrystal does not form.

Figure S8.33. Overlay of PXRD patterns (top to bottom) for: (a) pre; (b) 9-phenanthrol and (c) product of LAG reaction of pre and 9-phenanthrol in 1:1 stoichiometric ratio. Cocrystal does not form.
Figure S8.34. Overlay of PXRD patterns (top to bottom) for: (a) pre; (b) 2,7-dihydroxynaphthalene and (c) product of LAG reaction of pre and 2,7-dihydroxynaphthalene in 1:1 stoichiometric ratio. Cocrystal forms.

Figure S8.35. Overlay of PXRD patterns (top to bottom) for: (a) pre; (b) gentisic acid and (c) product of LAG reaction of pre and gentisic acid in 1:1 stoichiometric ratio. Cocrystal does not form.
Figure S8.36. Overlay of PXRD patterns (top to bottom) for: (a) pre; (b) phthalimide and (c) product of LAG reaction of pre and phthalimide in 1:1 stoichiometric ratio. Cocrystal does not form.

Figure S8.37. Overlay of PXRD patterns (top to bottom) for: (a) pre; (b) theophylline and (c) product of LAG reaction of pre and theophylline in 1:1 stoichiometric ratio. Cocrystal does not form.
Figure S8.38. Overlay of PXRD patterns (top to bottom) for: (a) pre; (b) theobromine and (c) product of LAG reaction of pre and theobromine in 1:1 stoichiometric ratio. Cocrystal does not form.

Figure S8.39. Overlay of PXRD patterns (top to bottom) for: (a) pre; (b) naphthalene and (c) product of LAG reaction of pre and naphthalene in 1:1 stoichiometric ratio. Cocrystal does not form.
Figure S8.40. Overlay of PXRD patterns (top to bottom) for: (a) pre; (b) octafluoronaphthalene and (c) product of LAG reaction of pre and octafluoronaphthalene in 1:1 stoichiometric ratio. Cocrystal does not form.

Figure S8.41. Overlay of PXRD patterns (top to bottom) for: (a) pre; (b) phenanthrene and (c) product of LAG reaction of pre and phenanthrene in 1:1 stoichiometric ratio. Cocrystal does not form.
Figure S8.42. Overlay of PXRD patterns (top to bottom) for: (a) pre; (b) pyrene and (c) product of LAG reaction of pre and pyrene in 1:1 stoichiometric ratio. Cocrystal does not form.

Figure S8.43. Overlay of PXRD patterns (top to bottom) for: (a) pre; (b) perylene and (c) product of LAG reaction of pre and perylene in 1:1 stoichiometric ratio. Cocrystal does not form.
Figure S8.44. Overlay of PXRD patterns (top to bottom) for: (a) pre; (b) coronene and (c) product of LAG reaction of pre and coronene in 1:1 stoichiometric ratio. Cocrystal does not form.

S8.3. β-Estradiol experiments

Figure S8.45. Overlay of PXRD patterns (top to bottom) for: (a) bes; (b) 4-bromophenol and (c) product of LAG reaction of bes and 4-bromophenol in 1:1 stoichiometric ratio. Cocrystal does not form.
Figure S8.46. Overlay of PXRD patterns (top to bottom) for: (a) **bes**; (b) phloroglucinol and (c) product of LAG reaction of **bes** and phloroglucinol in 1:1 stoichiometric ratio. Cocrystal does not form.

Figure S8.47. Overlay of PXRD patterns (top to bottom) for: (a) **bes**; (b) 1-naphthol and (c) product of LAG reaction of **bes** and 1-naphthol in 1:1 stoichiometric ratio. Cocrystal does not form.
Figure S8.48. Overlay of PXRD patterns (top to bottom) for: (a) bes; (b) 2-naphthol and (c) product of LAG reaction of bes and 2-naphthol in 1:1 stoichiometric ratio. Cocrystal does not form.

Figure S8.49. Overlay of PXRD patterns (top to bottom) for: (a) bes; (b) 1-naphthoic acid and (c) product of LAG reaction of bes and 1-naphthoic acid in 1:1 stoichiometric ratio. Cocrystal does not form.
Figure S8.50. Overlay of PXRD patterns (top to bottom) for: (a) bes; (b) 2-naphthoic acid and (c) product of LAG reaction of bes and 2-naphthoic acid in 1:1 stoichiometric ratio. Cocrystal does not form.

Figure S8.51. Overlay of PXRD patterns (top to bottom) for: (a) bes; (b) 2-hydroxy-1-naphthoic acid and (c) product of LAG reaction of bes and 2-hydroxy-1-naphthoic acid in 1:1 stoichiometric ratio. Cocrystal does not form.
Figure S8.52. Overlay of PXRD patterns (top to bottom) for: (a) **bes**; (b) 2-hydroxy-3-naphthoic acid and (c) product of LAG reaction of **bes** and 2-hydroxy-3-naphthoic acid in 1:1 stoichiometric ratio. Cocrystal does not form.

Figure S8.53. Overlay of PXRD patterns (top to bottom) for: (a) **bes**; (b) 1-hydroxy-2-naphthoic acid and (c) product of LAG reaction of **bes** and 1-hydroxy-2-naphthoic acid in 1:1 stoichiometric ratio. Cocrystal does not form.
Figure S8.54. Overlay of PXRD patterns (top to bottom) for: (a) bes; (b) pyrenol and (c) product of LAG reaction of bes and pyrenol in 1:1 stoichiometric ratio. Cocrystal does not form.

Figure S8.55. Overlay of PXRD patterns (top to bottom) for: (a) bes; (b) 9-phenanthrol and (c) product of LAG reaction of bes and 9-phenanthrol in 1:1 stoichiometric ratio. Cocrystal does not form.
Figure S8.56. Overlay of PXRD patterns (top to bottom) for: (a) bes; (b) 2,7-dihydroxynaphthalene and (c) product of LAG reaction of bes and 2,7-dihydroxynaphthalene in 1:1 stoichiometric ratio. Cocrystal does not form.

Figure S8.57. Overlay of PXRD patterns (top to bottom) for: (a) bes; (b) gentisic acid and (c) product of LAG reaction of bes and gentisic acid in 1:1 stoichiometric ratio. Cocrystal does not form.
Figure S8.58. Overlay of PXRD patterns (top to bottom) for: (a) bes; (b) phthalimide and (c) product of LAG reaction of bes and phthalimide acid in 1:1 stoichiometric ratio. Cocrystal does not form.

Figure S8.59. Overlay of PXRD patterns (top to bottom) for: (a) bes; (b) theophylline and (c) product of LAG reaction of bes and theophylline in 1:1 stoichiometric ratio. Cocrystal does not form.
Figure S8.60. Overlay of PXRD patterns (top to bottom) for: (a) bes; (b) theobromine and (c) product of LAG reaction of bes and theobromine in 1:1 stoichiometric ratio. Co-crystal does not form.

Figure S8.61. Overlay of PXRD patterns (top to bottom) for: (a) bes; (b) naphthalene and (c) product of LAG reaction of bes and naphthalene in 1:1 stoichiometric ratio. Co-crystal does not form.
Figure S8.62. Overlay of PXRD patterns (top to bottom) for: (a) bes; (b) octafluoronaphthalene and (c) product of LAG reaction of bes and octafluoronaphthalene in 1:1 stoichiometric ratio. Cocrystal forms.

Figure S8.63. Overlay of PXRD patterns (top to bottom) for: (a) bes; (b) phenanthrene and (c) product of LAG reaction of bes and phenanthrene in 1:1 stoichiometric ratio. Cocrystal forms.
Figure S8.64. Overlay of PXRD patterns (top to bottom) for: (a) $\text{bes}$; (b) pyrene and (c) product of LAG reaction of $\text{bes}$ and pyrene in 1:1 stoichiometric ratio. Cocrystal forms.

Figure S8.65. Overlay of PXRD patterns (top to bottom) for: (a) $\text{bes}$; (b) perylene and (c) product of LAG reaction of $\text{bes}$ and perylene in 1:1 stoichiometric ratio. Cocrystal does not form.
Figure S8.66. Overlay of PXRD patterns (top to bottom) for: (a) \textit{bes}; (b) coronene and (c) product of LAG reaction of \textit{bes} and coronene in 1:1 stoichiometric ratio. Cocrystal does not form.

S8.4. Estrone experiments

Figure S8.67. Overlay of PXRD patterns (top to bottom) for: (a) \textit{est}; (b) 4-bromophenol and (c) product of LAG reaction of \textit{est} and 4-bromophenol in 1:1 stoichiometric ratio. Cocrystal does not form.
Figure S8.68. Overlay of PXRD patterns (top to bottom) for: (a) est; (b) phloroglucinol and (c) product of LAG reaction of est and phloroglucinol in 1:1 stoichiometric ratio. Cocrystal does not form.

Figure S8.69. Overlay of PXRD patterns (top to bottom) for: (a) est; (b) 1-naphthol and (c) product of LAG reaction of est and 1-naphthol in 1:1 stoichiometric ratio. Cocrystal does not form.
Figure S8.70. Overlay of PXRD patterns (top to bottom) for: (a) est; (b) 2-naphthol and (c) product of LAG reaction of est and 2-naphthol in 1:1 stoichiometric ratio. Cocrystal does not form.

Figure S8.71. Overlay of PXRD patterns (top to bottom) for: (a) est; (b) 1-naphthoic acid and (c) product of LAG reaction of est and 1-naphthoic acid in 1:1 stoichiometric ratio. Cocrystal does not form.
Figure S8.72. Overlay of PXRD patterns (top to bottom) for: (a) est; (b) 2-naphthoic acid and (c) product of LAG reaction of est and 2-naphthoic acid in 1:1 stoichiometric ratio. Cocrystal does not form.

Figure S8.73. Overlay of PXRD patterns (top to bottom) for: (a) est; (b) 2-hydroxy-1-naphthoic acid and (c) product of LAG reaction of est and 2-hydroxy-1-naphthoic acid in 1:1 stoichiometric ratio. Cocrystal does not form.
Figure S8.74. Overlay of PXRD patterns (top to bottom) for: (a) est; (b) 2-hydroxy-3-naphthoic acid and (c) product of LAG reaction of est and 2-hydroxy-3-naphthoic acid in 1:1 stoichiometric ratio. Cocrystal does not form.

Figure S8.75. Overlay of PXRD patterns (top to bottom) for: (a) est; (b) 1-hydroxy-2-naphthoic acid and (c) product of LAG reaction of est and 1-hydroxy-2-naphthoic acid in 1:1 stoichiometric ratio. Cocrystal does not form.
Figure S8.76. Overlay of PXRD patterns (top to bottom) for: (a) est; (b) pyrenol and (c) product of LAG reaction of est and pyrenol in 1:1 stoichiometric ratio. Cocrystal does not form.

Figure S8.77. Overlay of PXRD patterns (top to bottom) for: (a) est; (b) 9-phenanthrol and (c) product of LAG reaction of est and 9-phenanthrol in 1:1 stoichiometric ratio. Cocrystal does not form.
**Figure S8.78.** Overlay of PXRD patterns (top to bottom) for: (a) est; (b) 2,7-dihydroxynaphthalene and (c) product of LAG reaction of est and 2,7-dihydroxynaphthalene in 1:1 stoichiometric ratio. Cocrystal does not form.

**Figure S8.79.** Overlay of PXRD patterns (top to bottom) for: (a) est; (b) gentisic acid and (c) product of LAG reaction of est and gentisic acid in 1:1 stoichiometric ratio. Cocrystal does not form.
**Figure S8.80.** Overlay of PXRD patterns (top to bottom) for: (a) est; (b) phthalimide and (c) product of LAG reaction of est and phthalimide in 1:1 stoichiometric ratio. Cocrystal does not form.

**Figure S8.81.** Overlay of PXRD patterns (top to bottom) for: (a) est; (b) theophylline and (c) product of LAG reaction of est and theophylline in 1:1 stoichiometric ratio. Cocrystal does not form.
Figure S8.82. Overlay of PXRD patterns (top to bottom) for: (a) est; (b) theobromine and (c) product of LAG reaction of est and theobromine in 1:1 stoichiometric ratio. Cocrystal does not form.

Figure S8.83. Overlay of PXRD patterns (top to bottom) for: (a) est; (b) naphthalene and (c) product of LAG reaction of est and naphthalene in 1:1 stoichiometric ratio. Cocrystal does not form.
Figure S8.84. Overlay of PXRD patterns (top to bottom) for: (a) est; (b) octafluoronaphthalene and (c) product of LAG reaction of est and octafluoronaphthalene in 1:1 stoichiometric ratio. Cocrystal forms.

Figure S8.85. Overlay of PXRD patterns (top to bottom) for: (a) est; (b) phenanthrene and (c) product of LAG reaction of est and phenanthrene in 1:1 stoichiometric ratio. Cocrystal does not form.
Figure S8.86. Overlay of PXRD patterns (top to bottom) for: (a) est; (b) pyrene and (c) product of LAG reaction of est and pyrene in 1:1 stoichiometric ratio. Cocrystal does not form.

Figure S8.87. Overlay of PXRD patterns (top to bottom) for: (a) est; (b) perylene and (c) product of LAG reaction of est and perylene in 1:1 stoichiometric ratio. Cocrystal does not form.
Figure S8.8. Overlay of PXRD patterns (top to bottom) for: (a) est; (b) coronene and (c) product of LAG reaction of est and coronene in 1:1 stoichiometric ratio. Cocrystal does not form.

S9. FTIR-ATR solid-state spectroscopy

Infrared spectra were recorded at 4 cm⁻¹ resolution on a Perkin Elmer Spectrum One FTIR spectrometer equipped with a diamond attenuated total reflectance (ATR) accessory. Potential cocrystals were compared with co-added spectra of the steroid and cococrystal former. Examples of positively confirmed cocrystals are depicted below along with several unsuccessful cocrystallisation attempts.

In cases where there is potential for hydrogen bonding, one would generally expect changes in the position of carbonyl or hydroxyl bands. When cocrystal formation arises due to α···π stacking, the region of interest for differentiating a cocrystal from a mixture of pure-component crystals is the in- and out of plane deformation (fingerprint) region.

Figure S9.1. Progesterone: 4-bromophenol cocrystal (bottom) vs spectral addition (top). Cocrystal formed.
Figure S9.2. Pregnenolone: 4-bromophenol cocrystal (top) vs spectral addition (bottom). Cocrystal formed.

Figure S9.3. Progesterone:2-naphthol cocrystal (bottom) vs spectral addition (top). Cocrystal formed.
Figure S9.4. Progesterone: 1-naphthol cocrystal (bottom) vs spectral addition (top). Cocrystal formed.

Figure S9.5. Pregnenolone: 1-naphthol cocrystal (bottom) vs co-addition (top). Cocrystal formed.
Figure S9.6. Progesterone: 9-phenanthrol cocrystal (bottom) vs co-addition (top). Cocrystal formed.

Figure S9.7. Progesterone: 2,7-dihydroxy naphthalene cocrystal (bottom) vs co-addition (top). Cocrystal formed.
Figure S9.8. pro: pyrene cocrystal (bottom) vs co-addition (top). Cocrystal formed.

Figure S9.9. Attempted pre: pyrene cocrystallisation (bottom) vs co-addition (top). No cocrystal formed.
Figure S9.10. **bpyrene cocrystal (bottom) vs co-addition (top). Cocrystal formed.** Note subtle changes in the fingerprint region (1000-650 cm⁻¹). In cases where successful formation of the cocrystal is not immediately obvious by IR then PXRD is referred to.

Figure S9.11. **naphthalene cocrystal (bottom) vs co-addition (top). Cocrystal formed.**
**Figure S9.12.** pro: 2-hydroxy-3-naphthoic acid cocrystal (bottom) vs co-addition (top). Cocrystal formed.

**Figure S9.13.** Attempted cocrystallisation of pre with 2-hydroxy-3-naphthoic acid (bottom) vs co-addition (top). No cocrystal formed. Note intensity difference at ca. 1664 cm⁻¹. This is attributable to varying degrees of free water in the attempted cocrystal compared to that associated with the constituents. Again, the PXRD experiment associated with this preparation is referred to.
Figure S9.14. Attempted cocrysalisation of bes with 2-hydroxy-3-naphthoic acid (bottom) vs co-addition (top). No cocrysal formed. Note intensity difference at ca. 1664 cm$^{-1}$. This is attributable to varying degrees of free water in the attempted cocrysal compared to that associated with the constituents. Again the PXRD experiment associated with this preparation is referred to.

Figure S9.15. est: 8-fluoronaphthalene cocrysal (bottom) vs co-addition (top). Cocrysal formed.
Figure S9.16. bes: 8-fluoronaphthalene cocrystal (top) vs co-addition (bottom). Cocrystal formed.