Electronic Supplementary Information for

Synthon polymorphs of 1:1 co-crystal of 5-fluorouracil and 4-hydroxybenzoic acid: their relative stability and solvent polarity dependence of grinding outcomes

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Fig. S1  IR spectra of 5FU-4HBA co-crystal polymorphs: (a) Form I and (b) Form II.
Fig. S2  DSC and TG curves of 5FU-4HBA co-crystal polymorphs: (a) **Form I** and (b) **Form II**.
Fig. S3  PXRD analysis: (a) calculated pattern of Form II, measured patterns for the outcome of SDG of 5FU and 4HBA (1:1) with various solvents, including (b) n-heptane, (c) 1, 4-dioxane, (d) benzene, (e) o-xylene, (f) p-xylene, (g) m-xylene, (h) chloroform, (i) ethyl acetate, (j) methyl acetate, (k) tetrahydrofuran, (l) methylene chloride, (m) sec-butyl alcohol, (n) n-butyl alcohol, (o) isopropyl alcohol, (p) butanone, (q) acetone, (r) propanol, (s) ethanol, (t) methanol, (u) acetonitrile, (v) ethylene glycol, (w) water, as well as (x) calculated pattern of Form I.
**Fig. S4** PXRD analysis of a 1 : 1 mixture of **Form I** and **Form II** before (a) and after (b) the slurry for 24 h in water overlaid on the calculated patterns of **Form II** (c) and **Form I** (d).

**Fig. S5** VT-PXRD analysis of **Form II**.