Novel solid forms of oxaprozin: cocrystals and an extended release drug-drug salt of salbutamol

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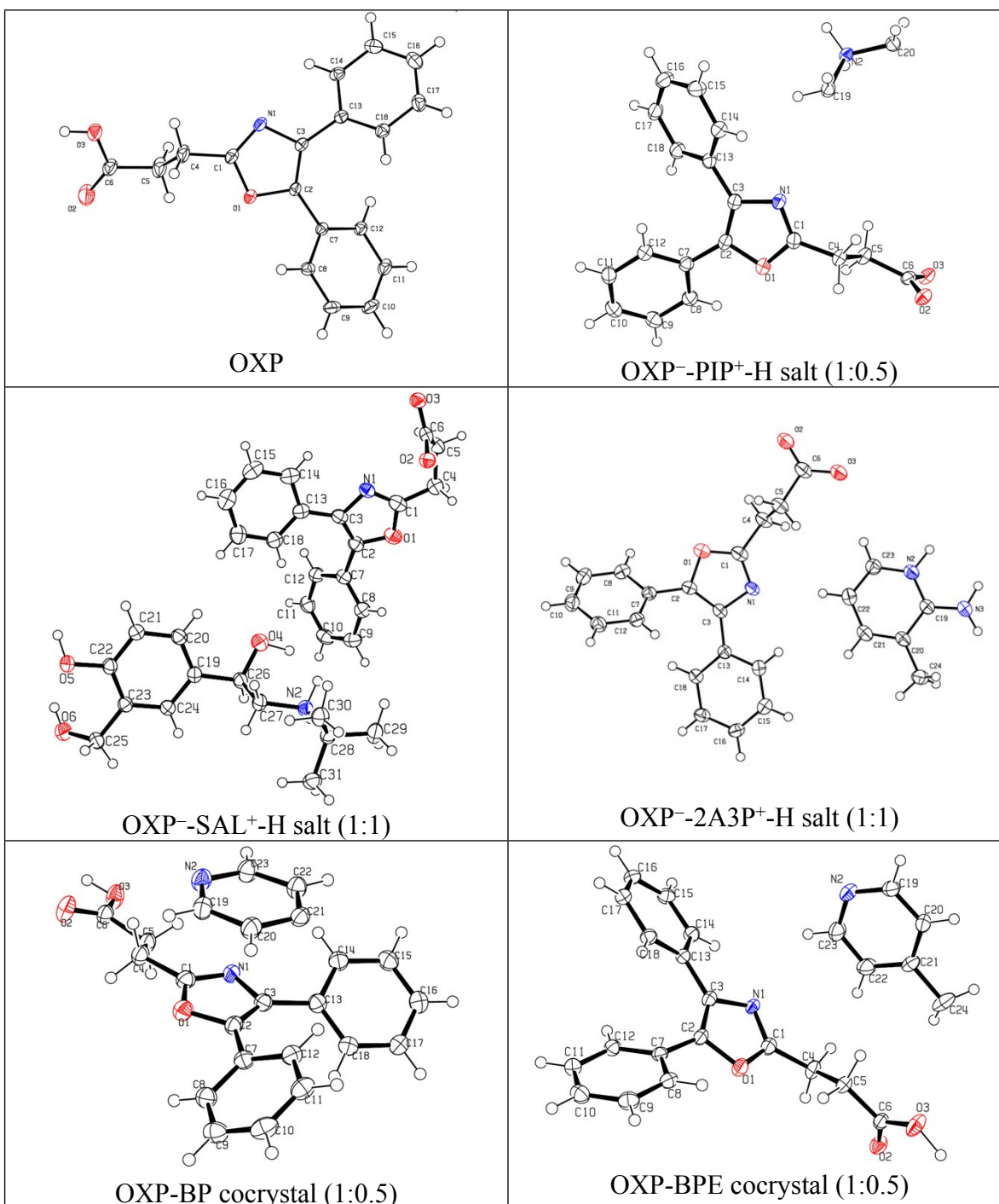**Supplementary Data**

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Figure S1. ORTEP drawings of the components of OXP and its salts and cocrystals. Thermal ellipsoids are drawn in 50 % probability.
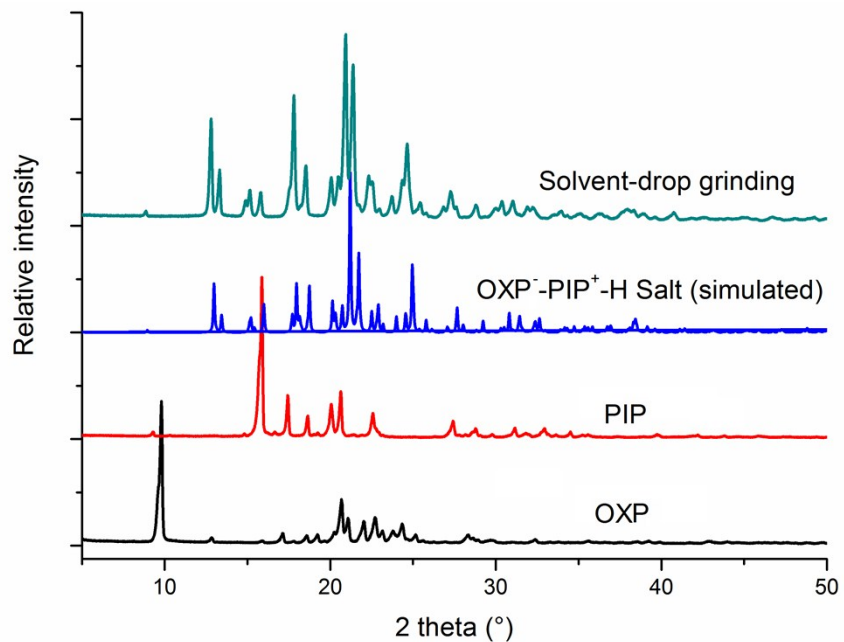
Fig. S2 Comparison of the PXRD pattern of the product obtained from solvent-drop grinding of OXP and PIP with simulated powder pattern of OXP^--PIP^+-H salt.
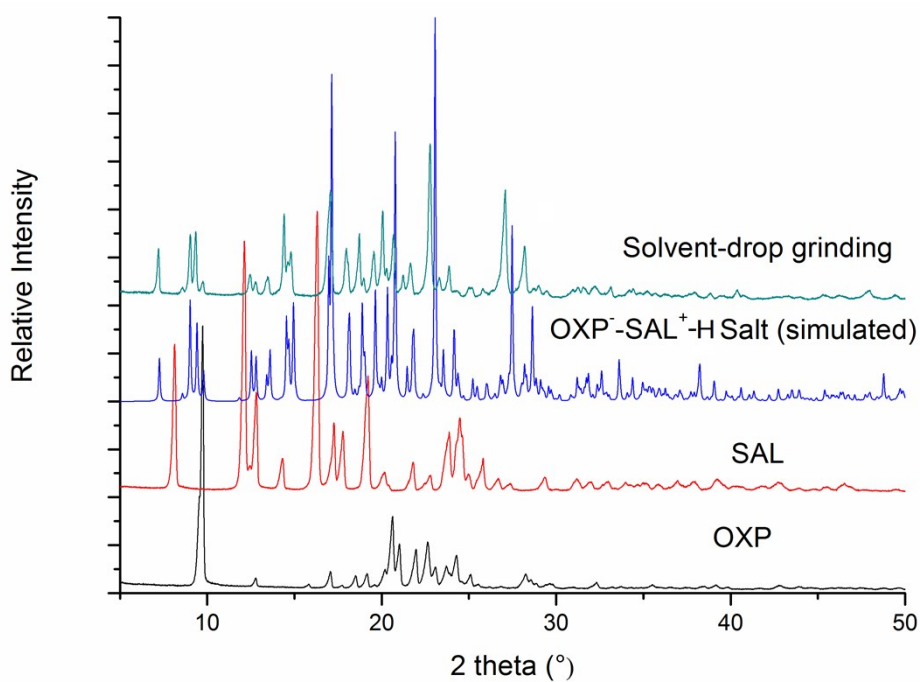

Fig. S3 Comparison of the PXRD pattern of the product obtained from solvent-drop grinding of OXP and SAL with simulated powder pattern of OXP^--SAL^+-H salt.
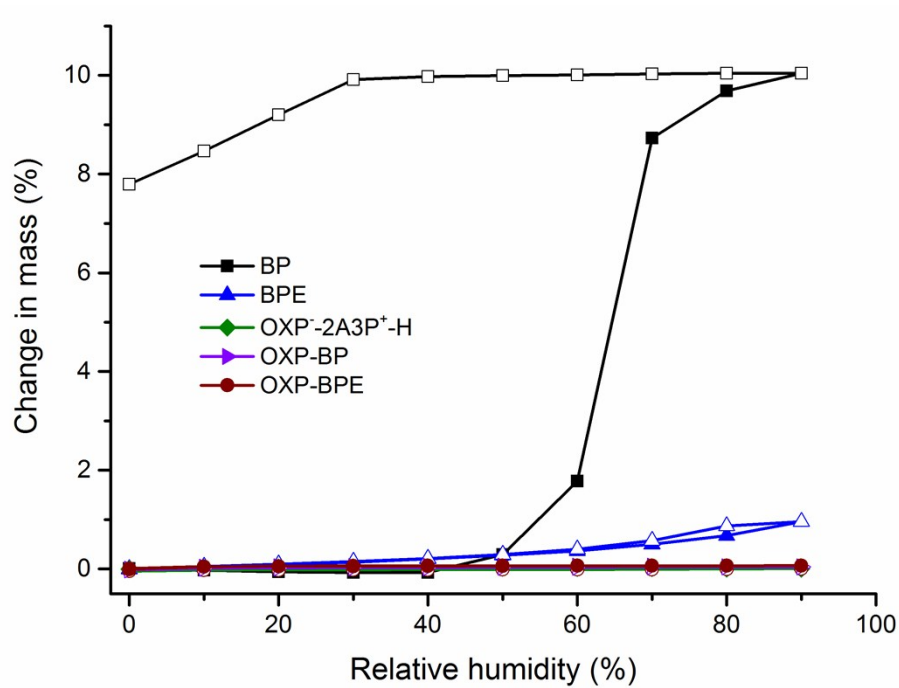
Fig. S4 DVS profiles of BP, BPE, OXP-BP, OXP-BPE, and OXP⁻-2A3P⁺-H salt. Note that 2A3P is a liquid at 30 °C and hence not analyzed by DVS.
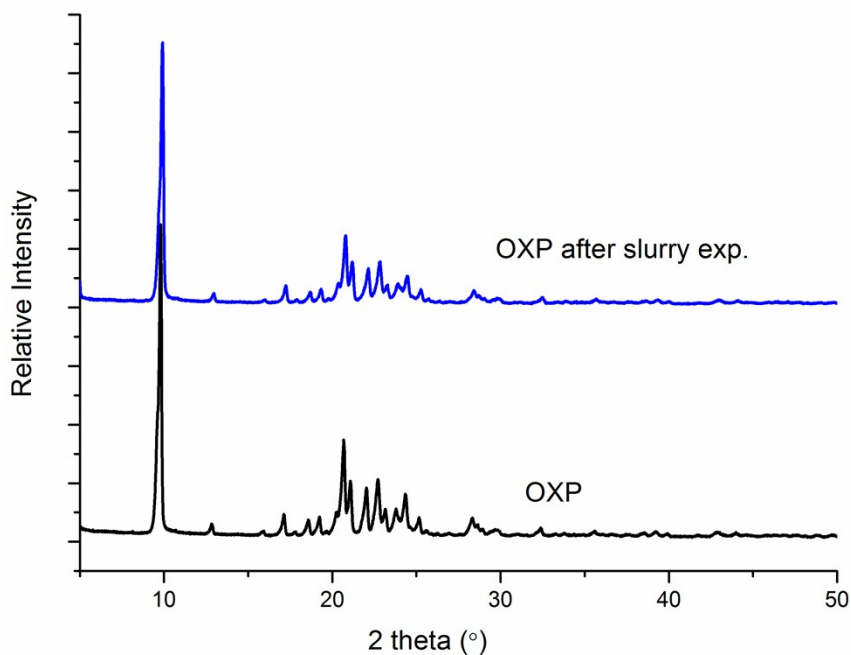

Fig. S5 Comparison of the PXRD pattern of the product obtained from slurry experiment using OXP with PXRD pattern of OXP.
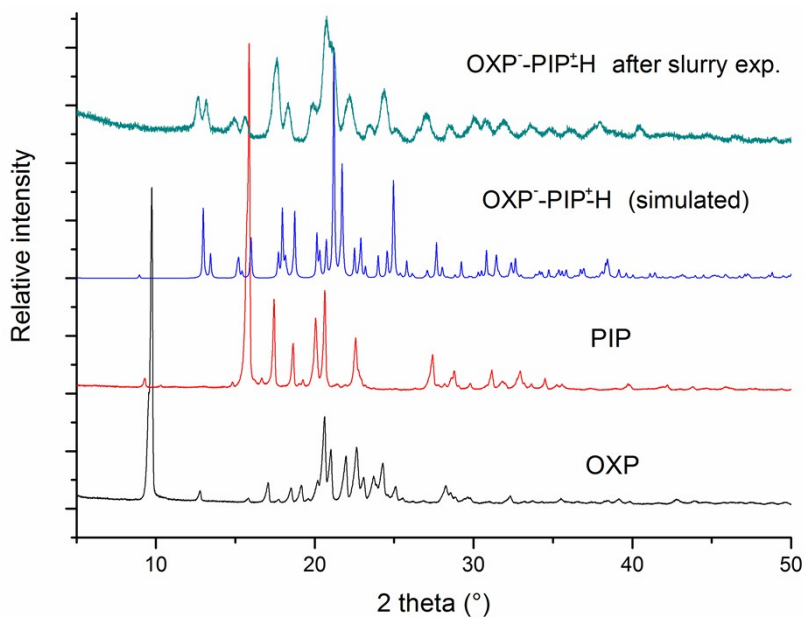
Fig. S6 Comparison of the PXRD pattern of the product obtained from slurry experiment using OXP⁻-PIP⁺-H salt with PXRD patterns of OXP, PIP, and simulated PXRD pattern of OXP⁻-PIP⁺-H salt.

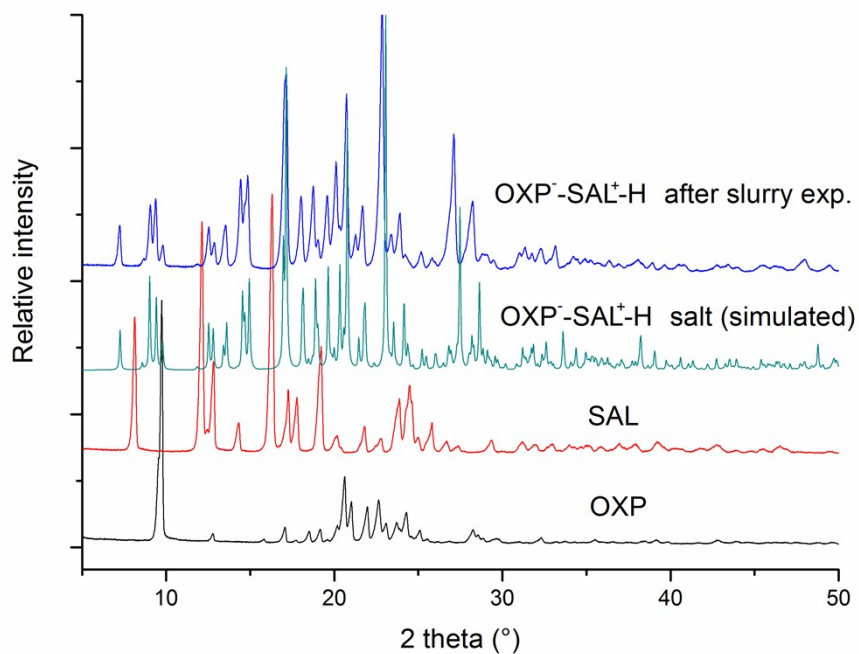**Fig. S7** Comparison of the PXRD pattern of the product obtained from slurry experiment using OXP⁻-SAL⁺-H salt with PXRD patterns of OXP, SAL, and simulated PXRD pattern of OXP⁻-SAL⁺-H salt.
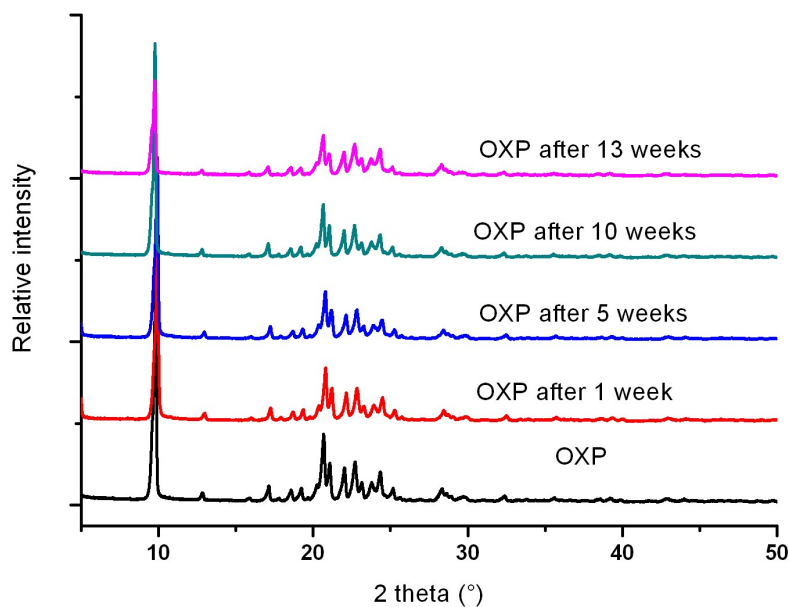
Fig. S8 Comparison of the PXRD patterns of the products obtained from stability experiments at accelerated conditions (40 °C, 75 % relative humidity) using OXP with PXRD pattern of OXP.
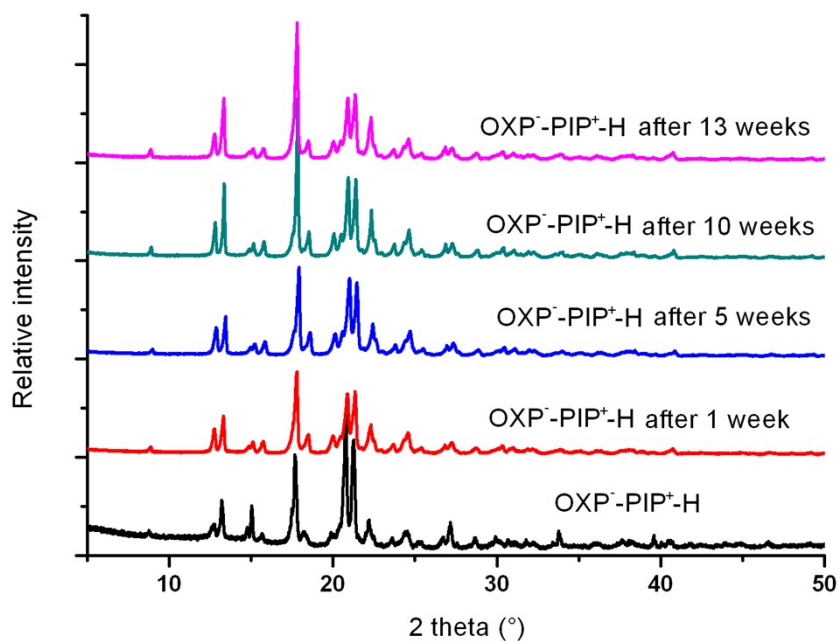

Fig. S9 Comparison of the PXRD patterns of the products obtained from stability experiments at accelerated conditions (40 °C, 75 % relative humidity) using OXP^--PIP^+-H salt with PXRD patterns of OXP, PIP, and simulated PXRD pattern of OXP^--PIP^+-H salt.
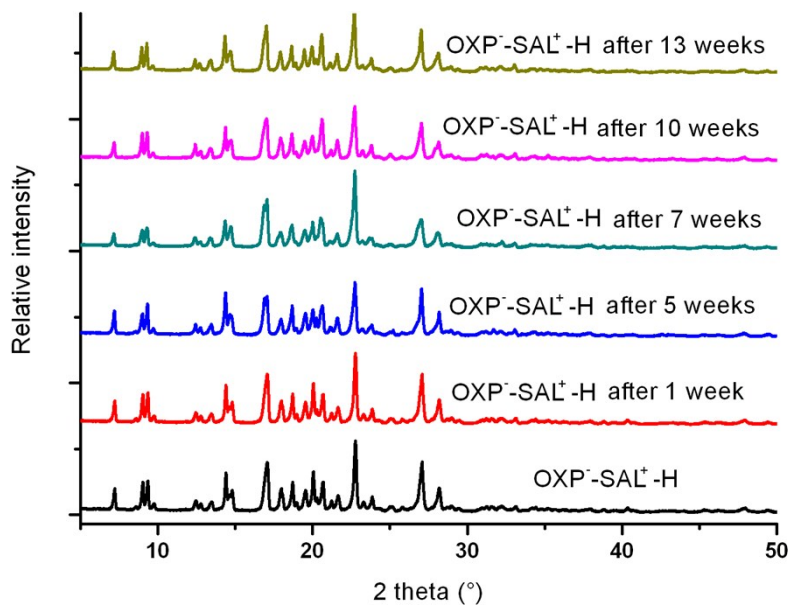
Fig. S10 Comparison of the PXRD patterns of the products obtained from stability experiments at accelerated conditions (40 °C, 75 % relative humidity) using OXP$^-$-SAL$^+$-H salt with PXRD patterns of OXP, SAL, and simulated PXRD pattern of OXP$^-$-SAL$^+$-H salt.
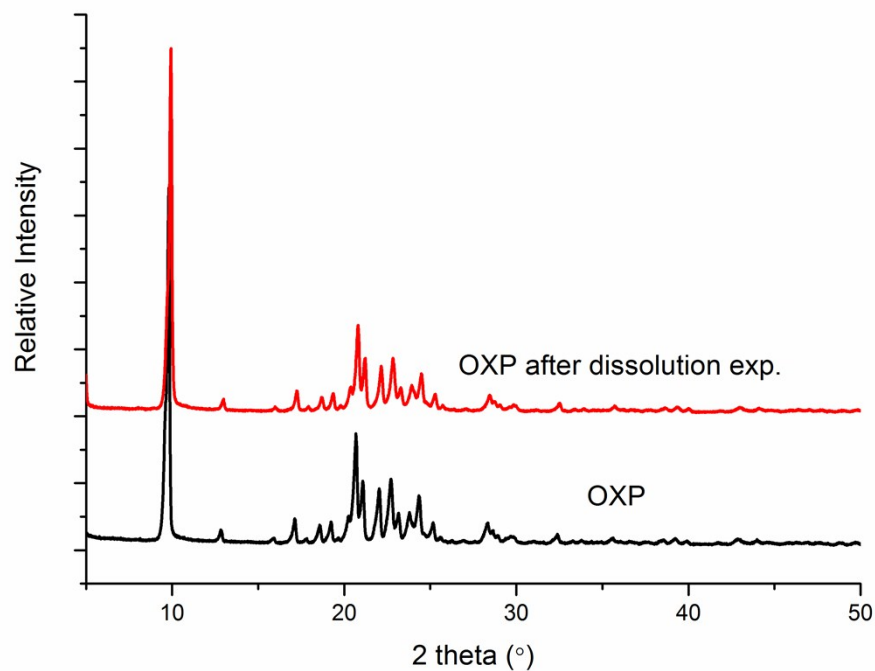

Fig. S11 Comparison of the PXRD pattern of the product obtained from dissolution experiment using OXP with PXRD pattern of OXP.

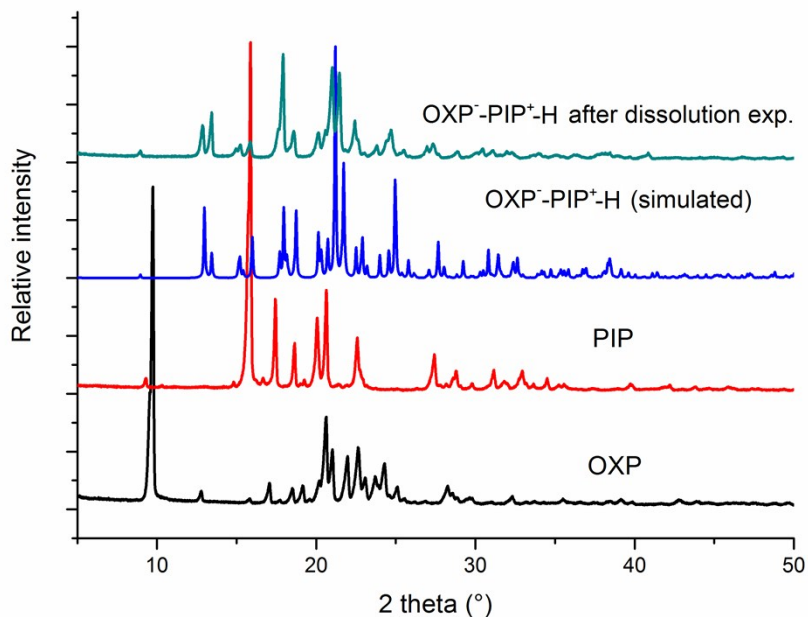**Fig. S12** Comparison of the PXRD pattern of the product obtained from dissolution experiment using OXP⁻-PIP⁺-H salt with PXRD patterns of OXP, PIP, and simulated PXRD pattern of OXP⁻-PIP⁺-H salt.
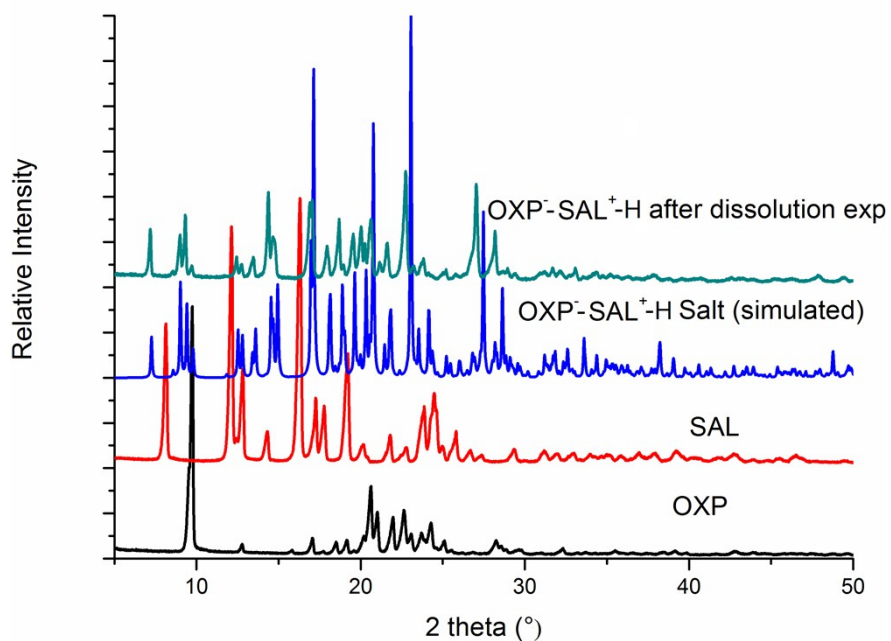

Fig. S13 Comparison of the PXRD pattern of the product obtained from dissolution experiment using OXP⁻-SAL⁺-H salt with PXRD patterns of OXP, SAL, and simulated PXRD pattern of OXP⁻-SAL⁺-H salt.