New Cocrystals of Ezetimibe with L-proline and Imidazole

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Fig. S1 ORTEP of asymmetric unit in the crystal lattice of ezetimibe, **EZT**

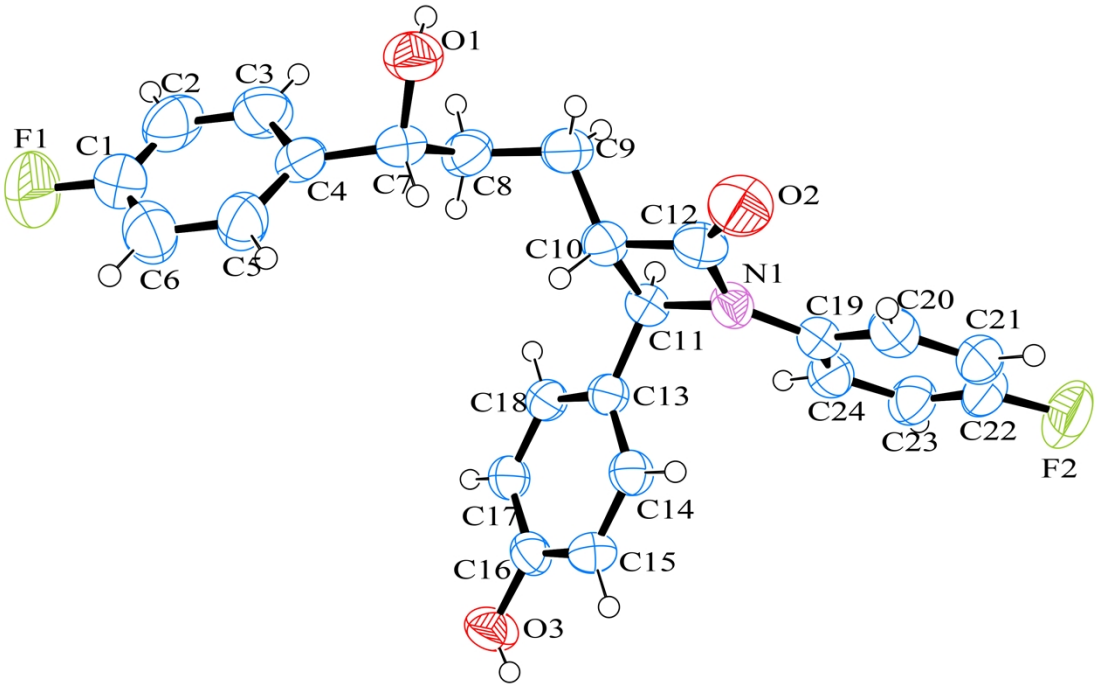


Fig. S2 Asymmetric unit of **EZT-IMI** cocrystal

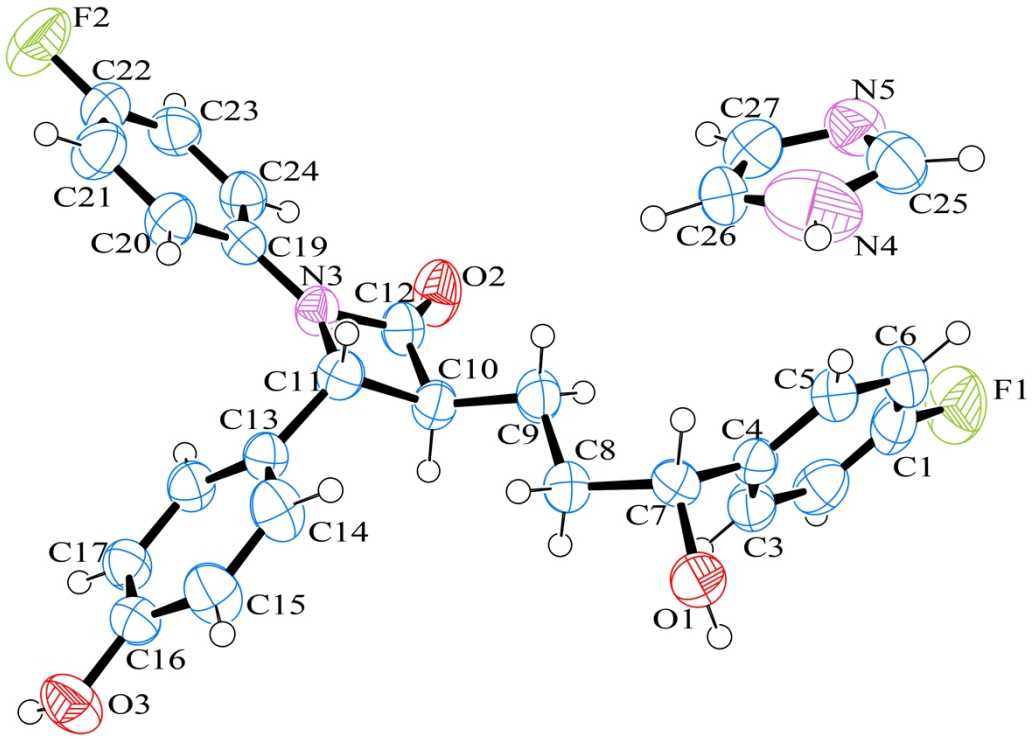


Fig. S3 ORTEP diagram of the **EZT-FOR**. Thermal ellipsoids are drawn at the 50 % probability level.

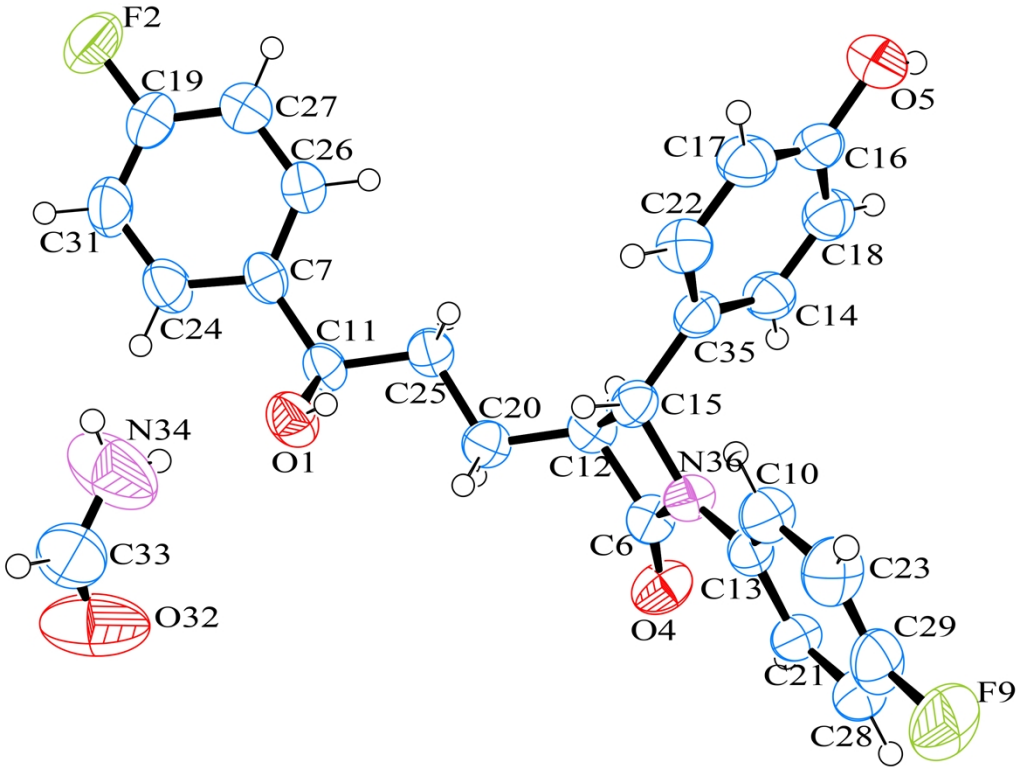
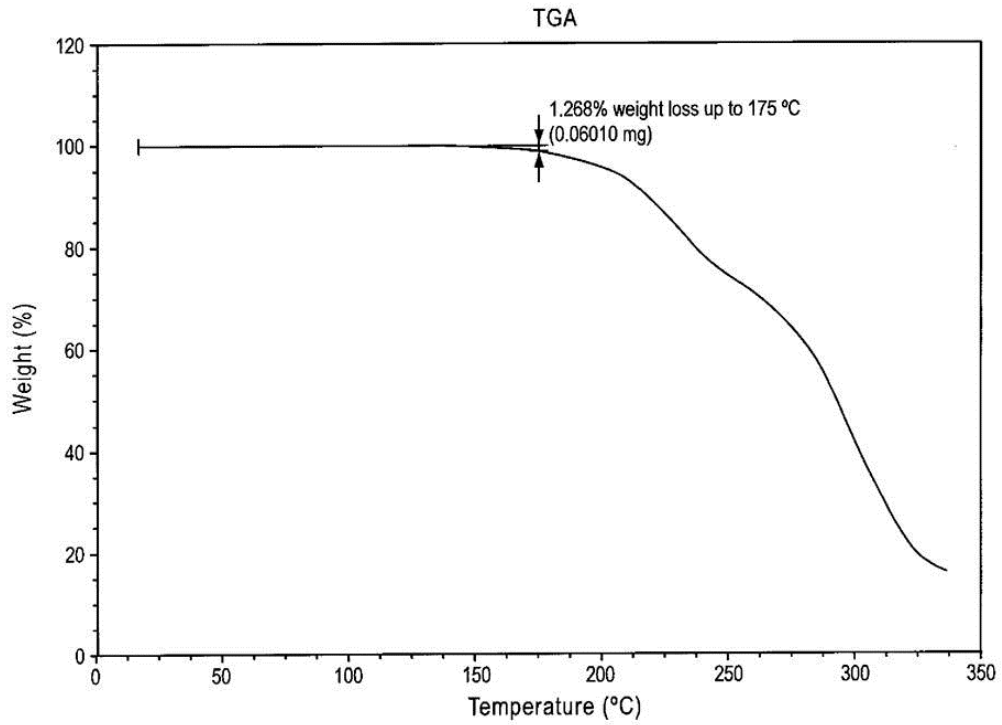


Fig. S4 TGA plot for (a) **EZT-PRO** and (b) **EZT-IMI** cocrystals

(a)



(b)

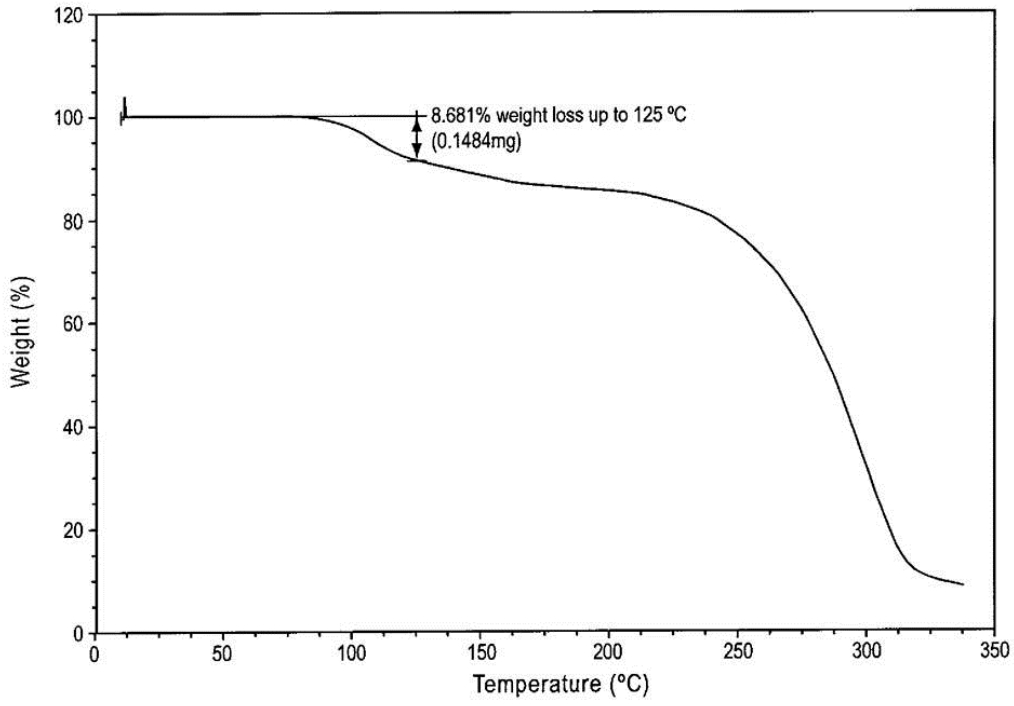
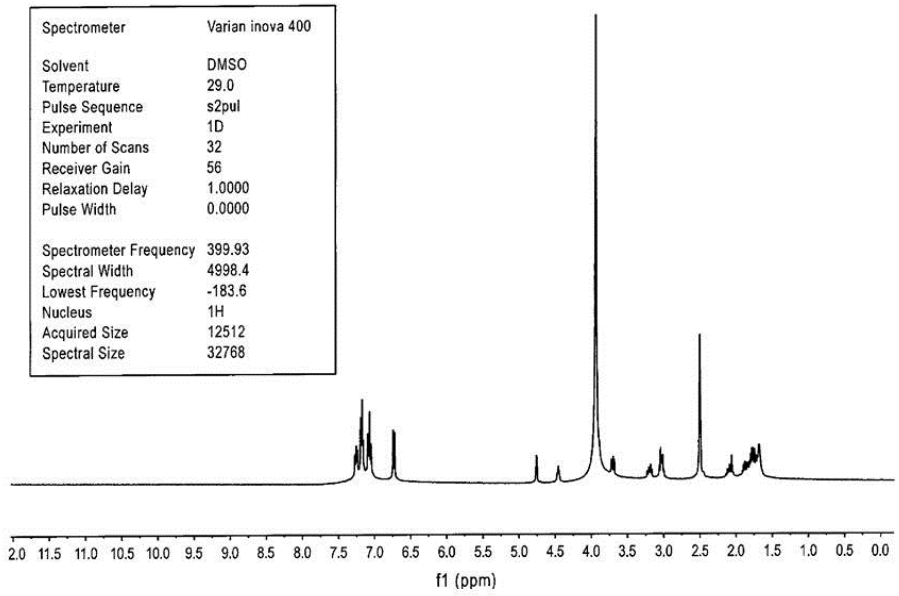


Fig. S5 ^{1}H-NMR plot for (a) **EZT-PRO** and (b) **EZT-IMI** cocrystals

(a)



(b)

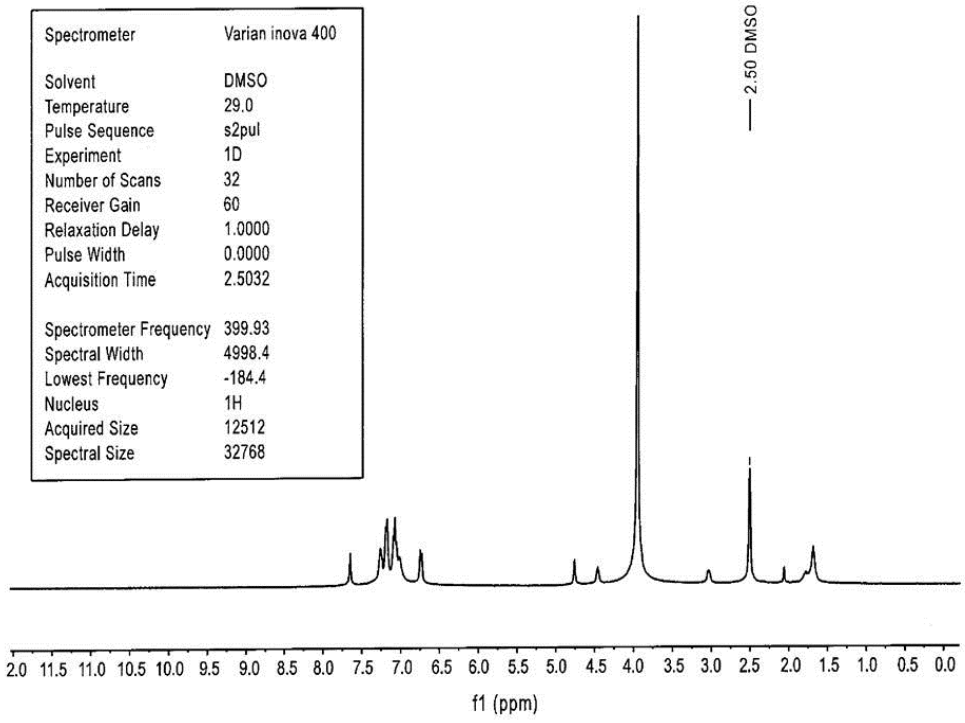


Fig. S6 XRPD of **EZT-PRO** before RH experiment (bottom) and after 31 days at 40 °C 75%RH (top).

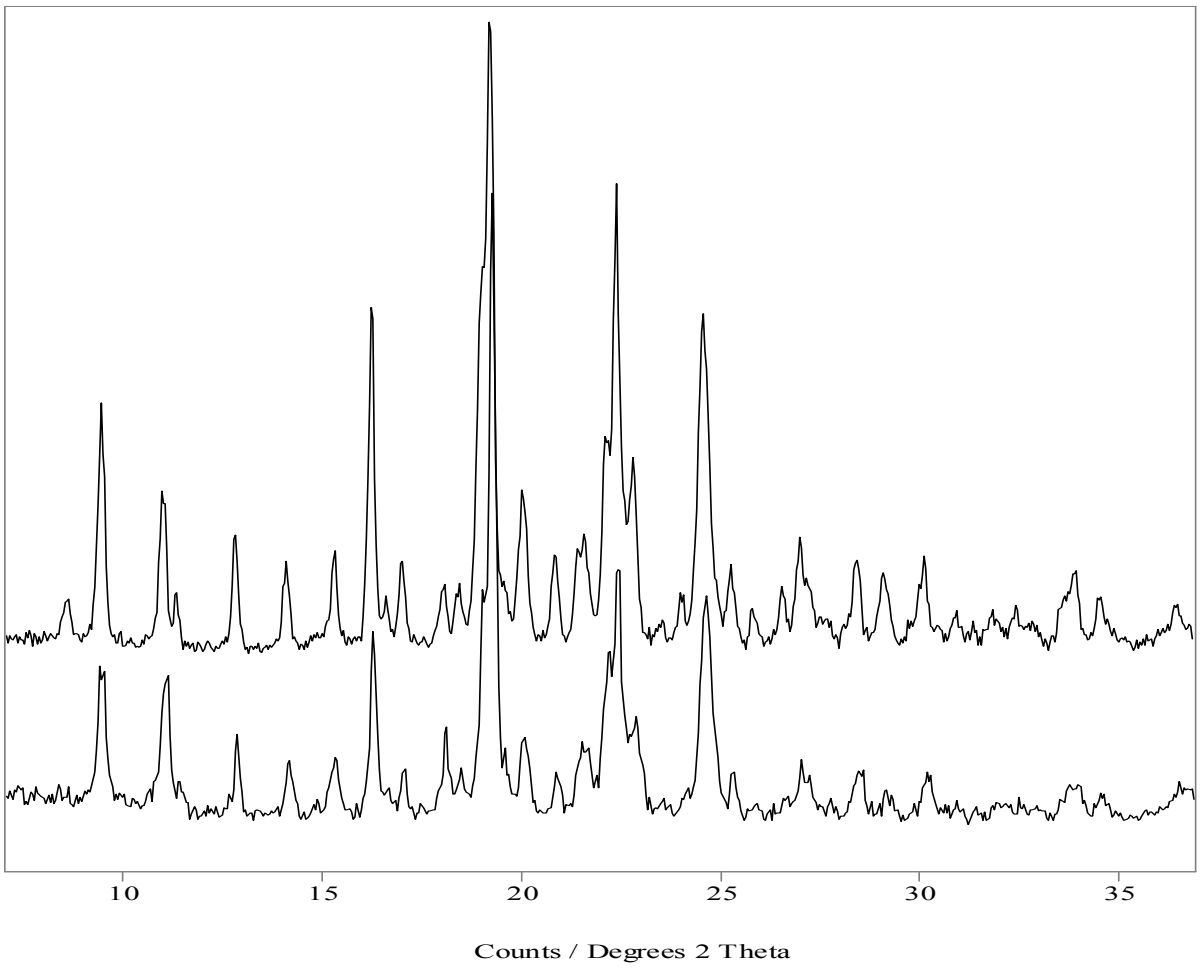


Table S1. Characteristics (distances/Å and angles/^{o}) of hydrogen bonds in the molecular compounds[$].

EZT			
(D–H□A)	**(H□A)**	**(D□A)**	**(D-H□A)**
O(1) –H(1O) □O(2)	2.04	2.7425	143
O(3) –H(31) □O(1)	2.01	2.7752	155
C(20) –H(20) □O(2) (Intra)	2.57	3.1390	120
EZT-IMI			
O(1) –H(5O) □N(5)	1.81	2.7219	169
O(3) –H(31A) □O(1)	1.85	2.6383	160
C(8) –H(8B) □O(3)	2.56	3.4213	150
C(10) –H(10) □O(3)	2.45	3.3448	155
C(26) –H(26A) □O(2)	2.03	2.9588	173
C(27) –H(27) □F(2)	2.37	3.1902	147
C(24) –H(24) □O(2) (Intra)	2.49	3.0909	122
EZT-FOR			
N(34) –H(34A) □O(1)	2.11	2.9366	162
O(5) –H(51) □O(32)	1.88	2.6989	176
O(1) –H(111) □O(4)	1.94	2.7552	174
C(23) –H(23) □F(2)	2.54	3.3633	148
C(33) –H(33) □O(4)	2.59	3.4579	156
C(21) –H(21) □O(4) (Intra)	2.49	3.0930	123

[$]The first column represents the atom label for the hydrogen bonds and the three numbers correspond to the distances of H□A, D□A and angle of D–H□A for each interaction.