

Supplementary

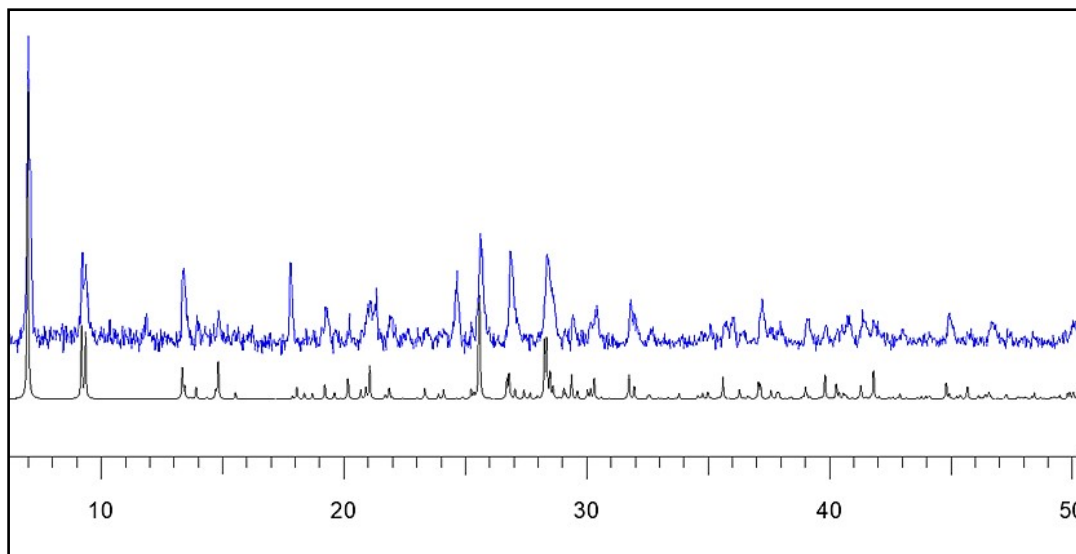


Fig. 1.S: Experimental (blue) vs calculated (black) peaks of PXR D

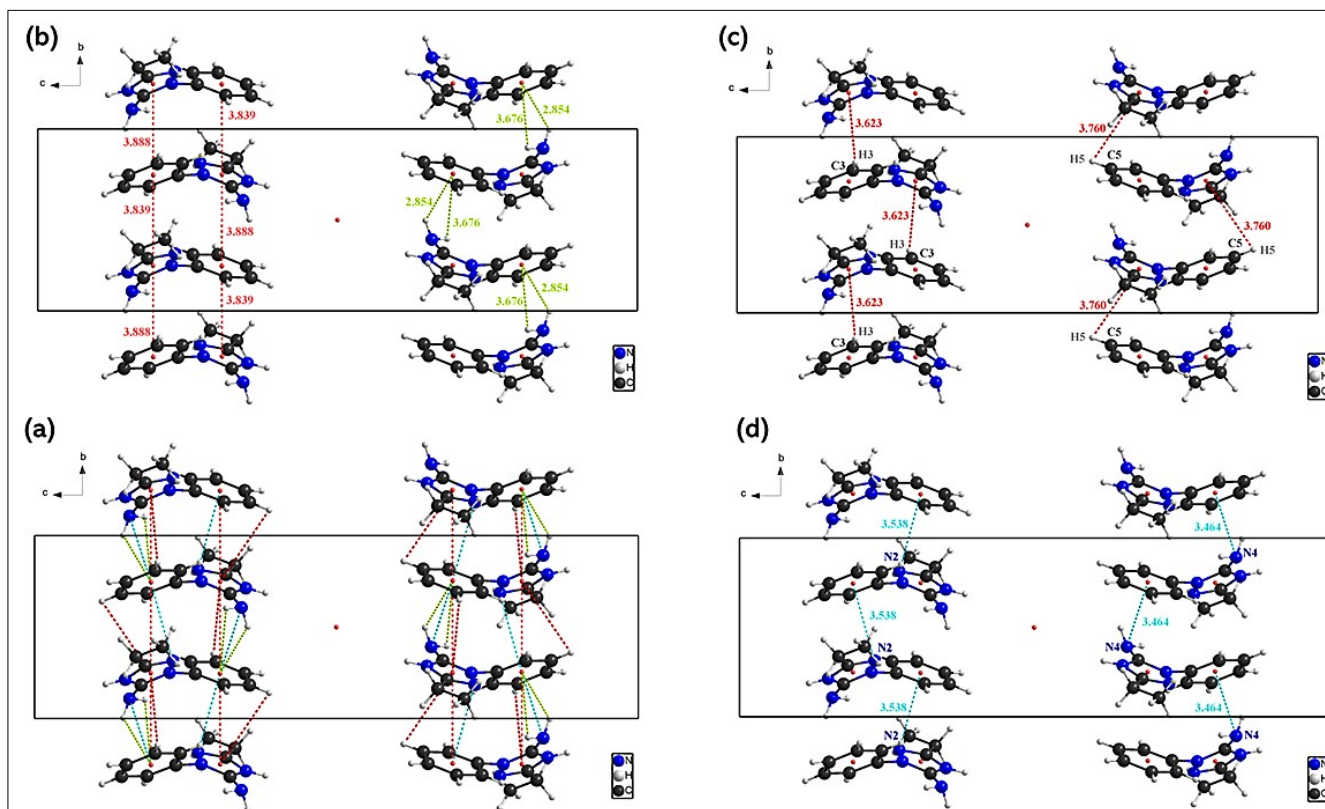


Fig. 2.S: (a) all types of π interactions, (b) $\pi \cdots \pi$ and N-H $\cdots \pi$ interactions, (c) C-H $\cdots \pi$ interactions, (d) n $\cdots \pi$ interactions, along the a-axis

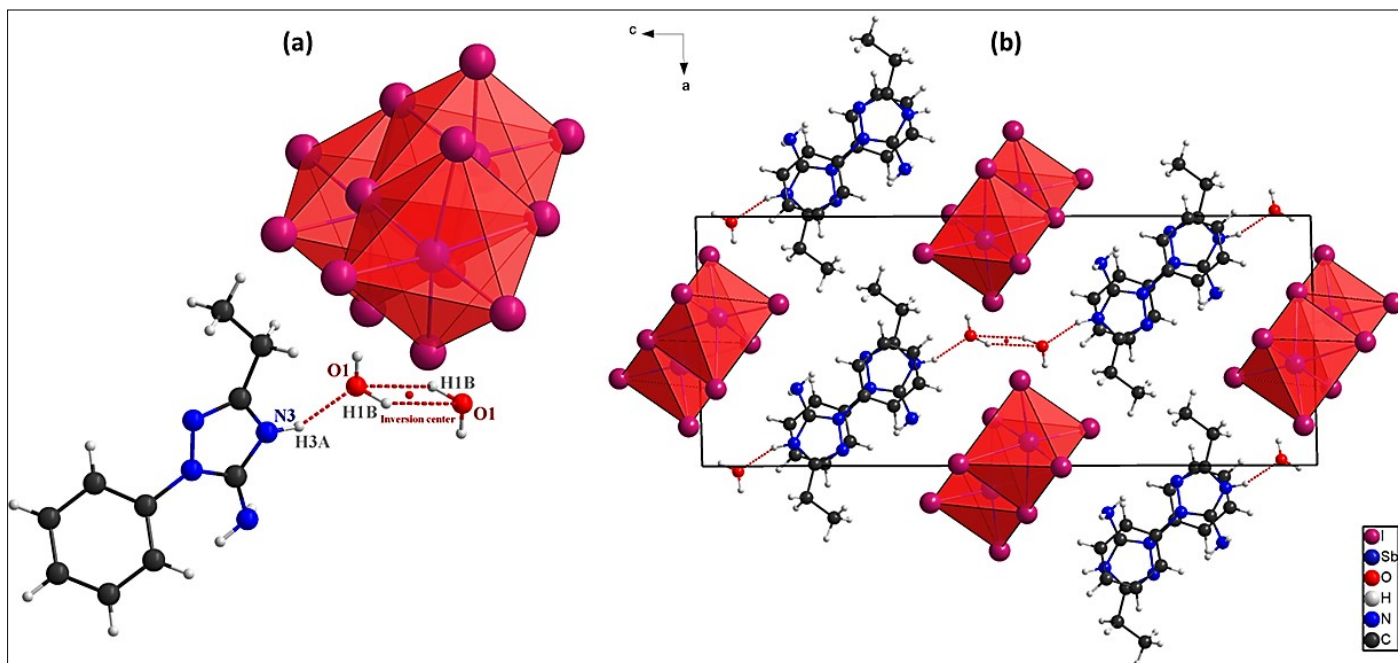


Fig. 3.S: Hydrogen bonding of the titled compound ((a) in the formula unit, and (b) the unit cell)

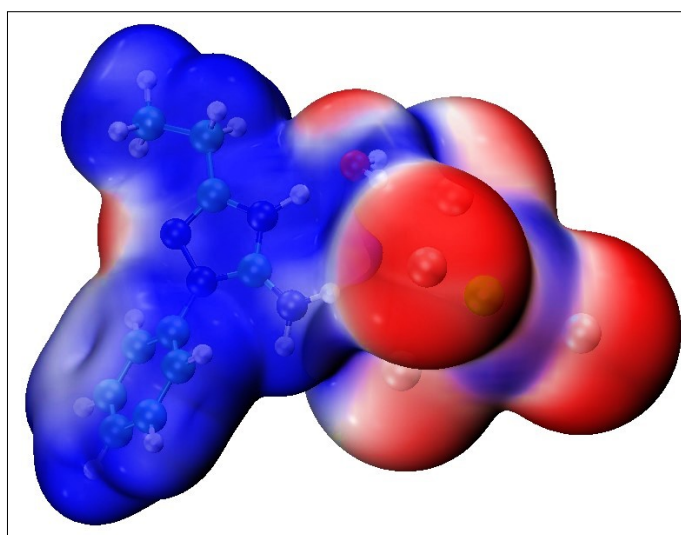


Fig. 4.S: Molecular Electrostatic Potential Analysis of the Target Compound

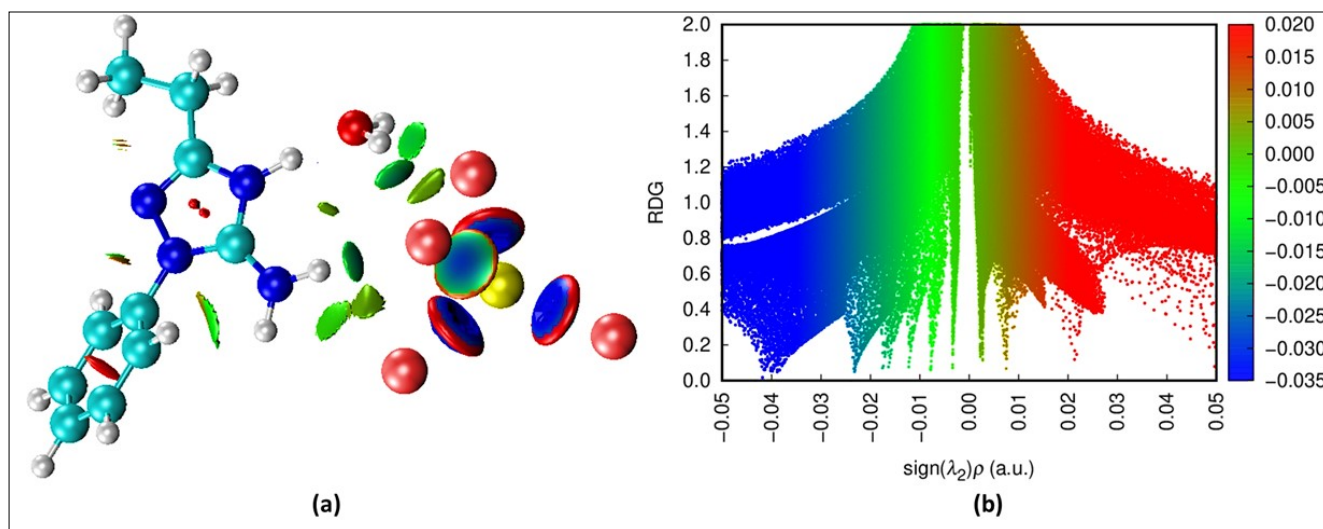


Fig. 5.S: (a) NCI and (b) RDG Visualization of the Target Compound

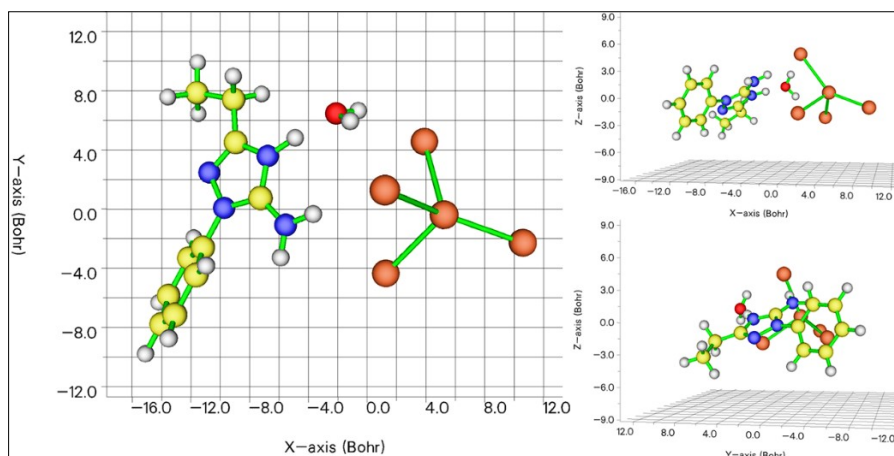


Fig. 6.S: Visualization in (XY), (XZ), and (YZ) planes

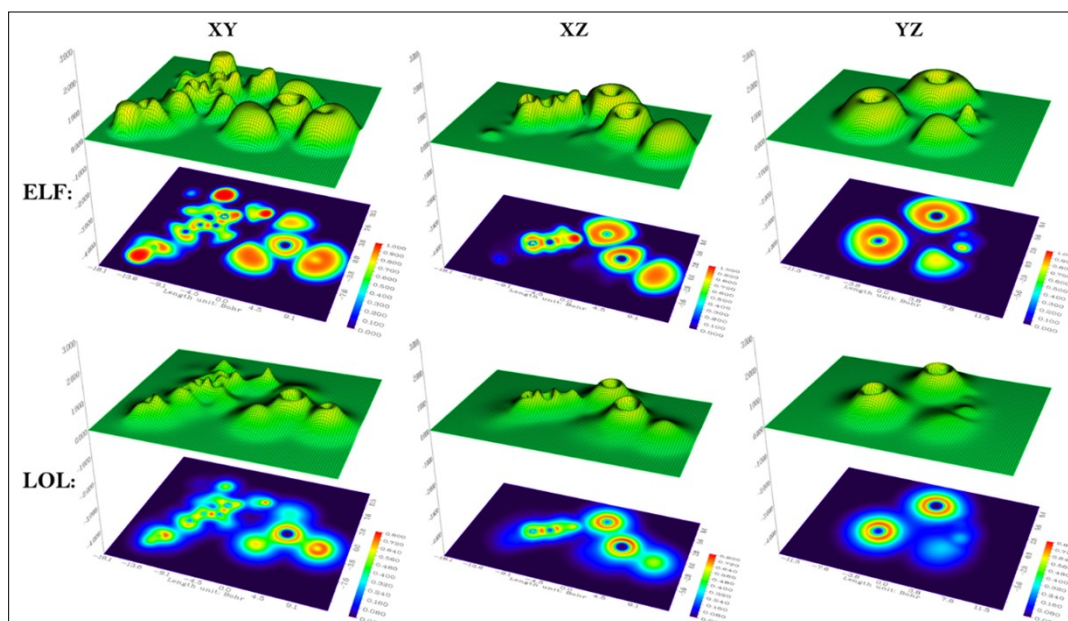


Fig. 7.S: Electron Localization Function (ELF) and LOL analyses

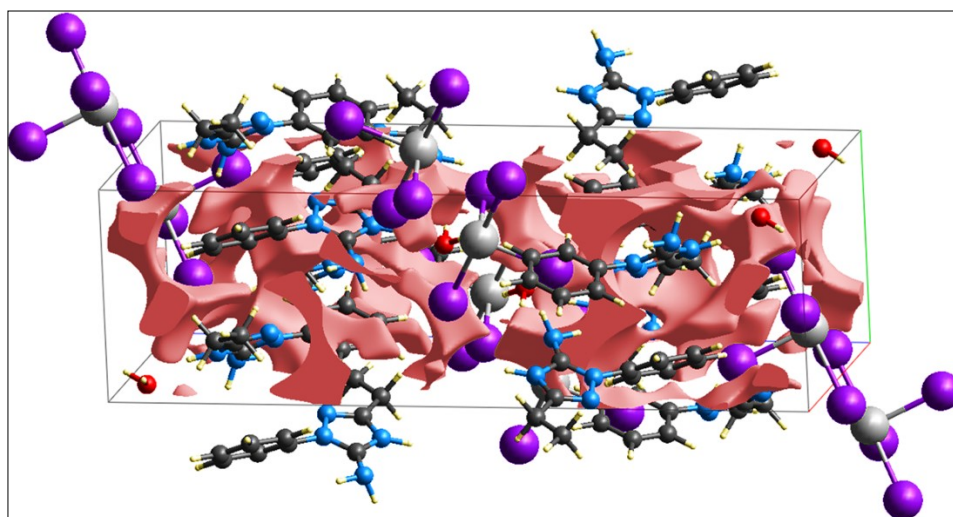


Fig. 8.S: Presence of a Crystal Void in the Compound

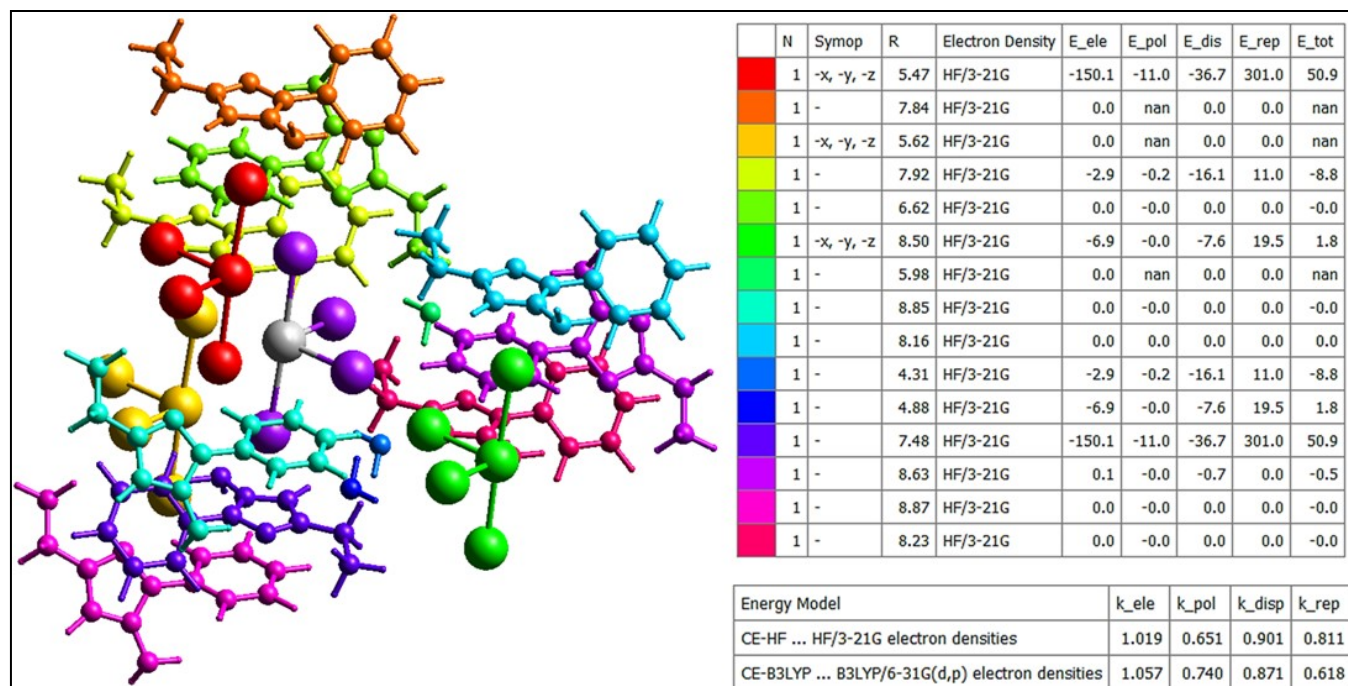


Fig. 9.S: Energy Framework Analysis of Intermolecular Interactions

Table 1.S: The attributions of calculated and observed frequencies of the vibration modes of the compound

IR (cm ⁻¹)	Raman (cm ⁻¹)	Calc. wavenumbers (cm ⁻¹)	Assignment
3556	-	3576	$\nu_{as}(\text{NH}_2)$
3427	-	3426	$\nu_s(\text{H}_2\text{O})$
3362	-	3268	$\nu_s(\text{NH}_2)$
3129	-	3129	$\nu_{as}(\text{C-H})$
3052	-	3056	$\nu_s(\text{C-H}) + \nu_{as}(\text{CH}_3)$
2965	-	2966	$\nu_s(\text{CH}_3) + \nu_{as}(\text{CH}_2)$
1800-2800	-	2539	$\nu(\text{N-H} \dots \text{O})$
1668	-	1633	$\delta(\text{H-O-H}) + \delta(\text{NH}_2)$
1582	-	1565	$\nu(\text{C=C}) + \delta(\text{CH}_2)$
1491	-	1462	$\omega(\text{CH}_3)$
1453	-	1427	$\gamma(\text{CH}_3)$
1168	-	1168	$\nu(\text{C-C})$
1017	-	1001	$\omega(\text{NH}_2)$
941	-	938	$\beta(\text{C-H})$
849	-	870	$\gamma(\text{C-H})$
754	-	714	$\omega(\text{H-O-H})$
668	-	634	$\delta(\text{H-O-H})$
556	-	551	$\rho(\text{C-C-C})$
-	-	293	$\nu_{as}(\text{Sb-I})$

-	159	142	$\nu_s(\text{Sb-I})$
-	108	106	$\delta_{as}(\text{I-Sb-I})$
-	86	92	$\delta_s(\text{I-Sb-I})$
-	60	59	Lattice mode

ν_s :symmetric stretching, ν_{as} :asymmetric stretching, β : in plane bending, γ :out plane bending, δ :scissoring, ρ :rocking

ω :wagging, τ : Twisting