

Supporting Information

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1. Characterisation of TMP

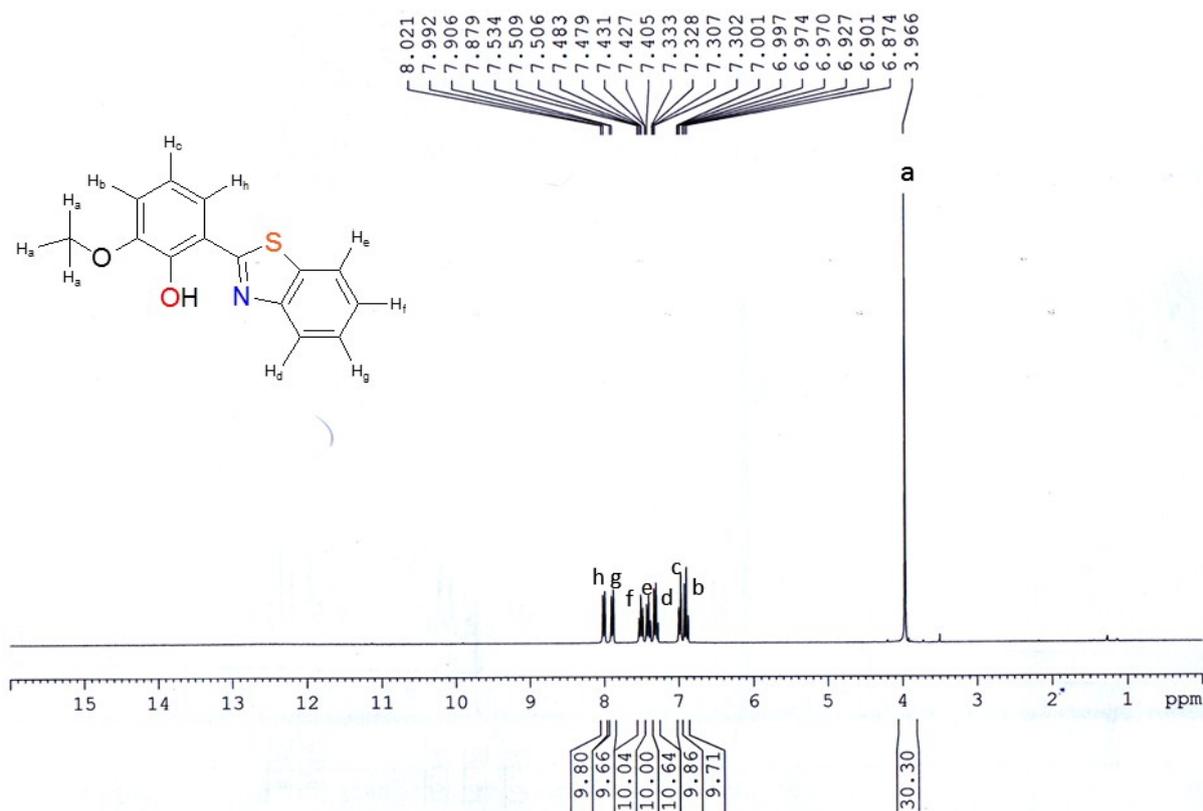


Fig. S1. ¹H NMR Spectrum of **TMP** in CDCl₃.

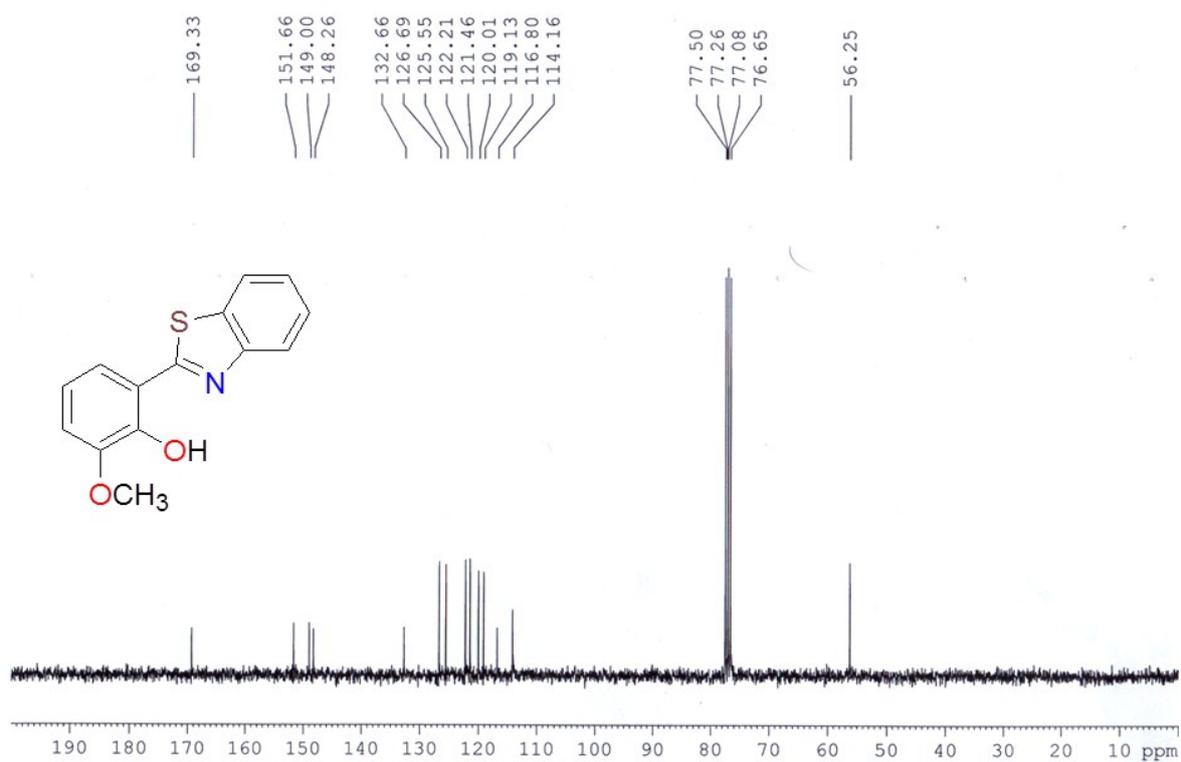


Fig. S2. ^{13}C NMR spectrum of **TMP** in CDCl_3 .

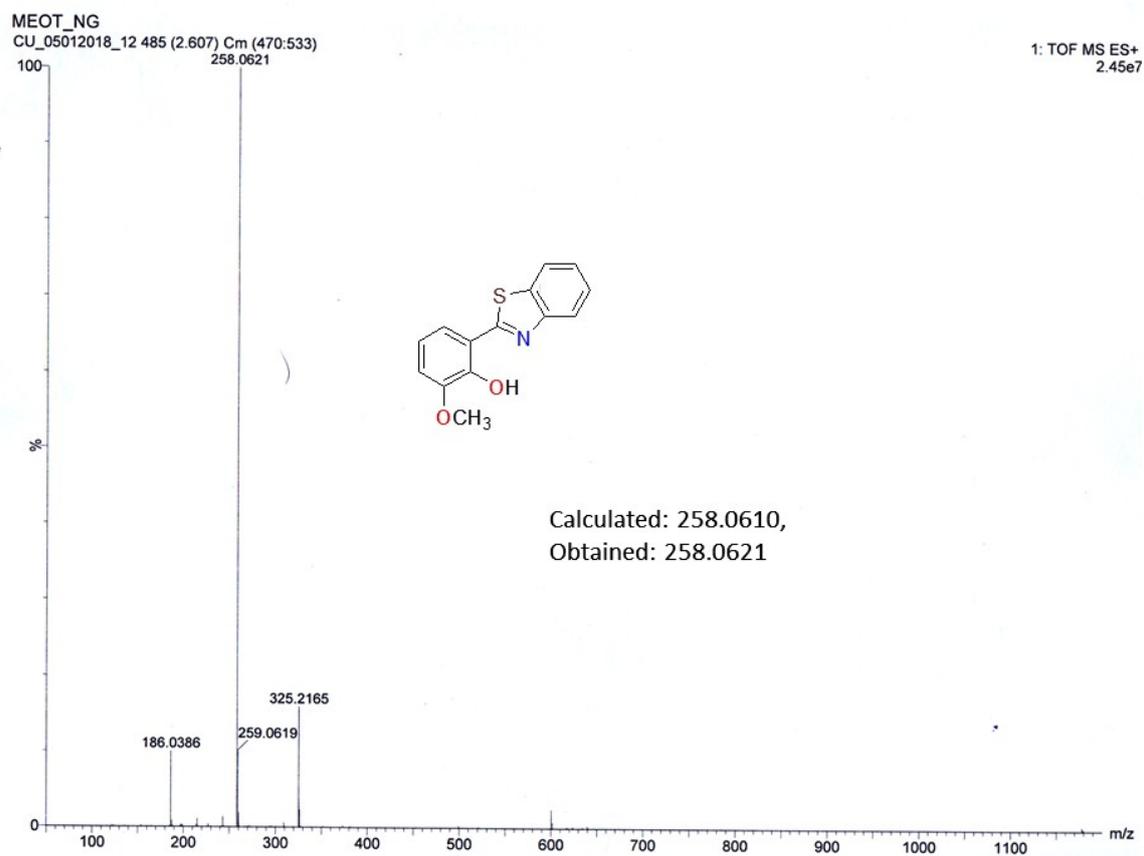


Fig. S3. ESI-MS of TMP in acetonitrile.

2. ORTEP diagram of TMP

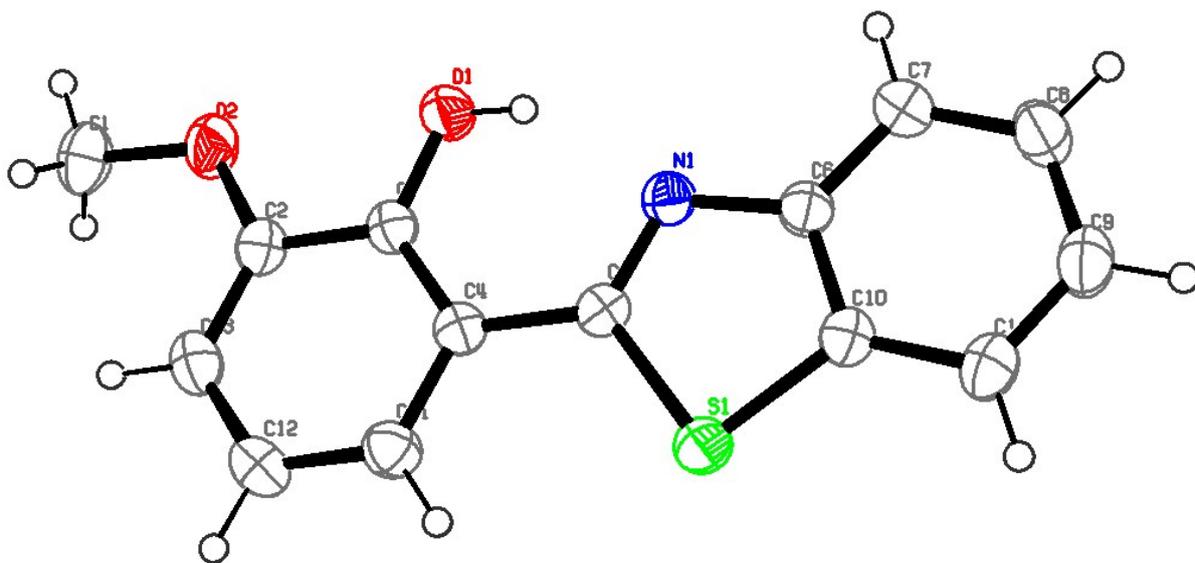


Fig. S4. ORTEP diagram of TMP at 40% probability.

3. Table S1

Table S1. - Crystal Data and Details of the Structure Determination for **TMP** (R = 0.03)

Formula	C ₁₄ H ₁₁ N O ₂ S		
Formula Weight	257.30		
Crystal System	orthorhombic		
Space group	P2 ₁ 2 ₁ 2 ₁ (No. 19)		
a, b, c [Angstrom]	16.1754(12)	6.0607(4)	12.2782(9)
V [Ang ³]	1203.68(15)		
Z	4		
D(calc) [g/cm ³]	1.420		
Mu(MoKa) [/mm]	0.261		
F(000)	536		
Crystal Size [mm]	0.48 x 0.54 x 0.60		
Temperature (K)	296		
Radiation [Angstrom]	MoKa 0.71073		
Theta Min-Max [Deg]	2.1, 32.1		

Tot., Uniq. Data, R(int) 17449, 3539, 0.035

Observed Data [$I > 2.0 \sigma(I)$] 3188

Nref, Npar 3539, 166

R, wR2, S 0.0344, 0.0883, 1.01

Max. and Av. Shift/Error 0.01, 0.00

Flack x 0.02(2)

Min. and Max.Resd.Dens. [e/Ang^3] -0.19, 0.23

4. Calibration curves for limit of detection

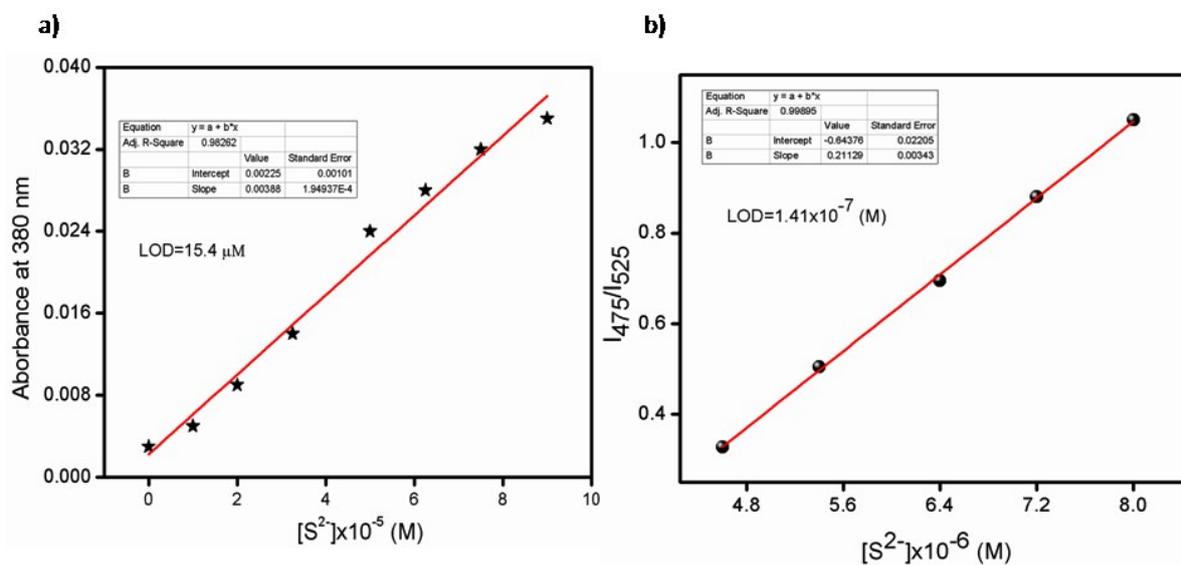


Fig. S5. Calibration curves for determining LOD from (a) UV-Vis titration and (b) Emission Titration data.

5. Excitation spectra of TMP+ RhB ensemble

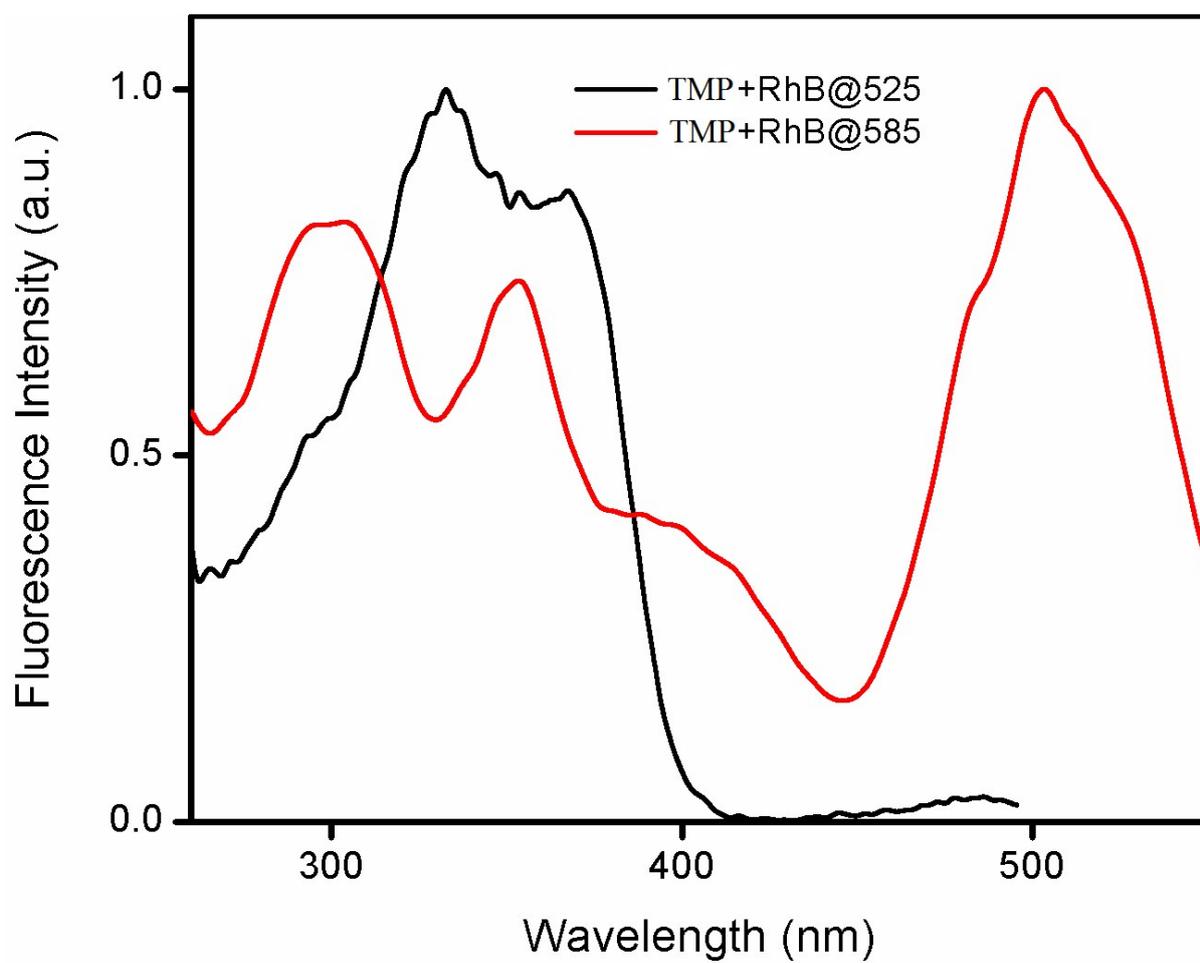


Fig. S6. Normalised Excitation spectra of **TMP+ RhB** ensemble in water.