

Supporting information

A novel fluorescent probe based on triphenylamine derivative for the detection of HSO_3^- with high sensitivity and selectivity

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Mass Spectrum SmartFormula Report

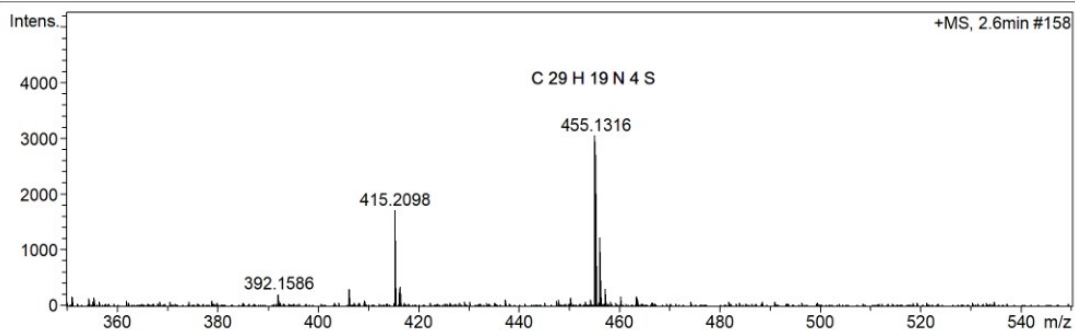
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Meas. m/z	#	Formula	m/z	err [ppm]	Mean err [ppm]	rdb	N-Rule	ei% Conf	mSig ma	Std I	Std Mean m/z	Std I VarNorm	Std m/z Diff	Std Com b Dev
455.1316	1	C ₂₉ H ₁₉ N ₄ S	455.1325	2.0	2.8	22.5	ok	even	33.03	0.0460	0.0020	0.0177	0.0041	0.8427

Fig. S1. High-resolution mass spectra of the probe TBQN.

Mass Spectrum SmartFormula Report

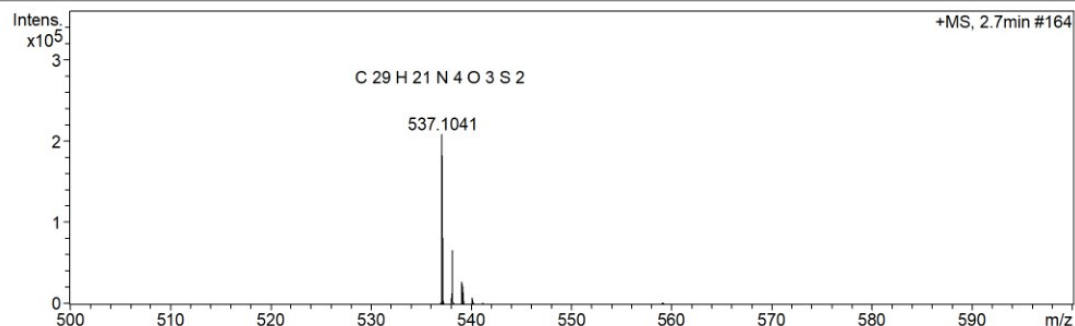
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Scan End	1200 m/z	Set Collision Cell RF	100.0 Vpp	Set Divert Valve	Waste



Meas. m/z	#	Formula	m/z	err [ppm]	Mean err [ppm]	rdb	N-Rule	ei% Conf	mSig ma	Std I	Std Mean m/z	Std I VarNorm	Std m/z Diff	Std Com b Dev
537.1041	1	C ₂₉ H ₂₁ N ₄ O ₃ S ₂	537.1050	1.6	1.6	21.5	ok	even	16.91	0.0286	0.0012	0.0082	0.0019	0.8427

Fig. S2 High-resolution mass spectra of the probe TBQN+HSO₃⁻.

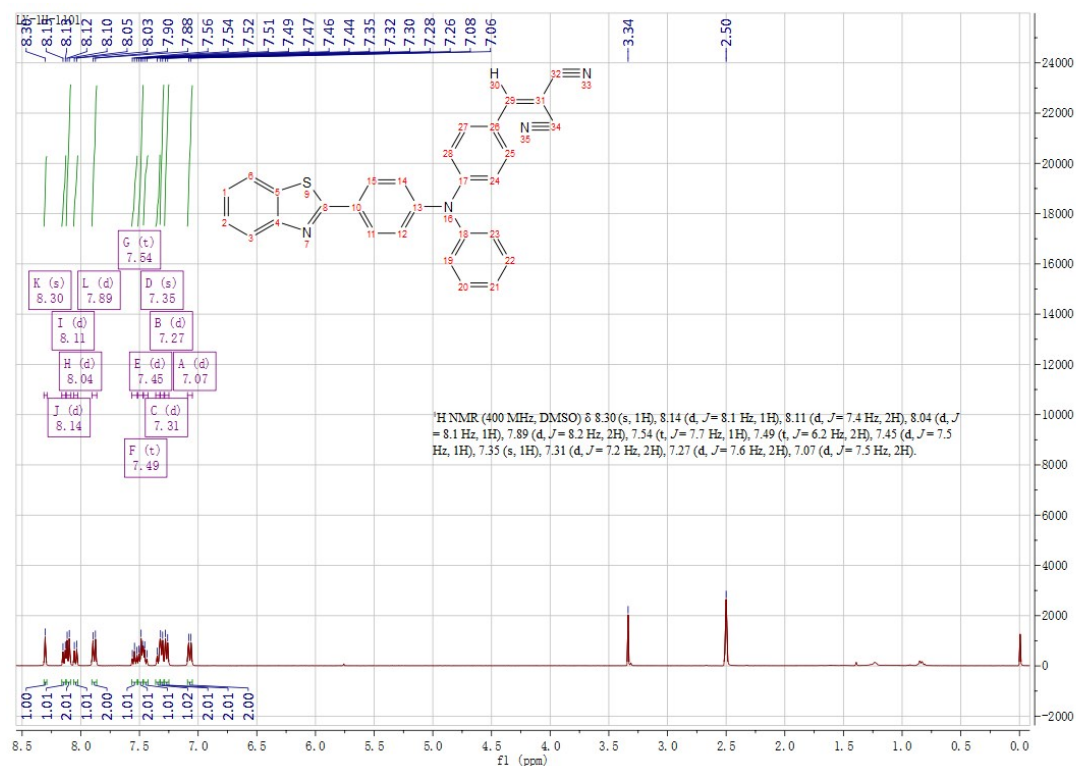


Fig. S3 ¹H NMR spectrum of probe TBQN in DMSO.

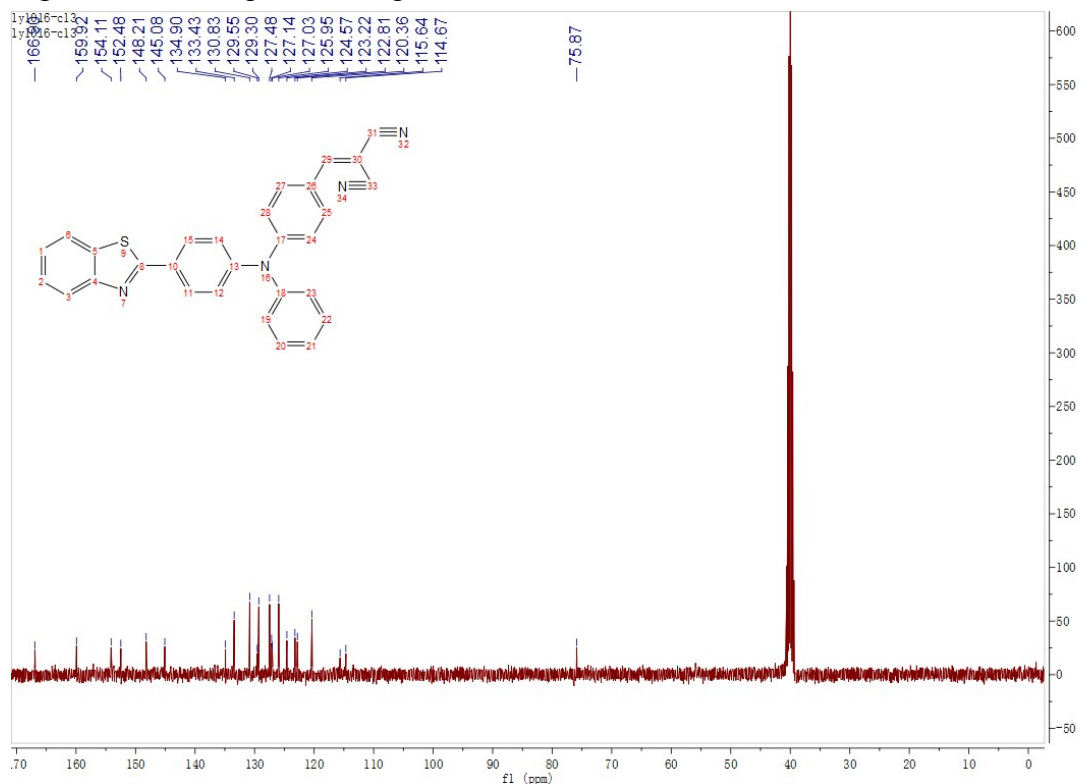


Fig. S4 ¹³C NMR spectrum of probe TBQN in DMSO.

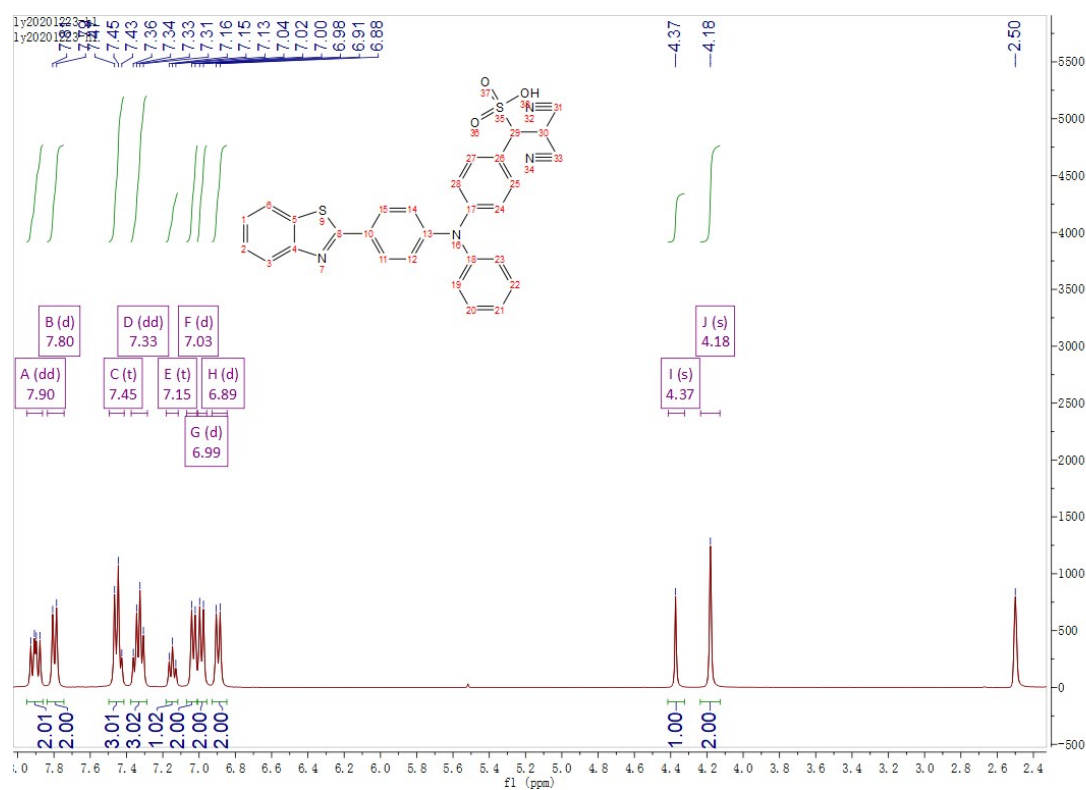


Fig. S5 ¹H NMR spectrum of the probe TBQN+HSO₃⁻.

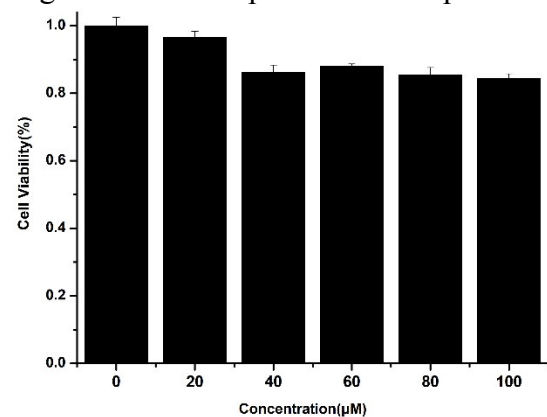


Fig. S6 The sketch map of cytotoxicity of probe TBQN.