Supporting Information

A NIR fluorescent probe for the specific detection of hypochlorite and its application in vitro and vivo

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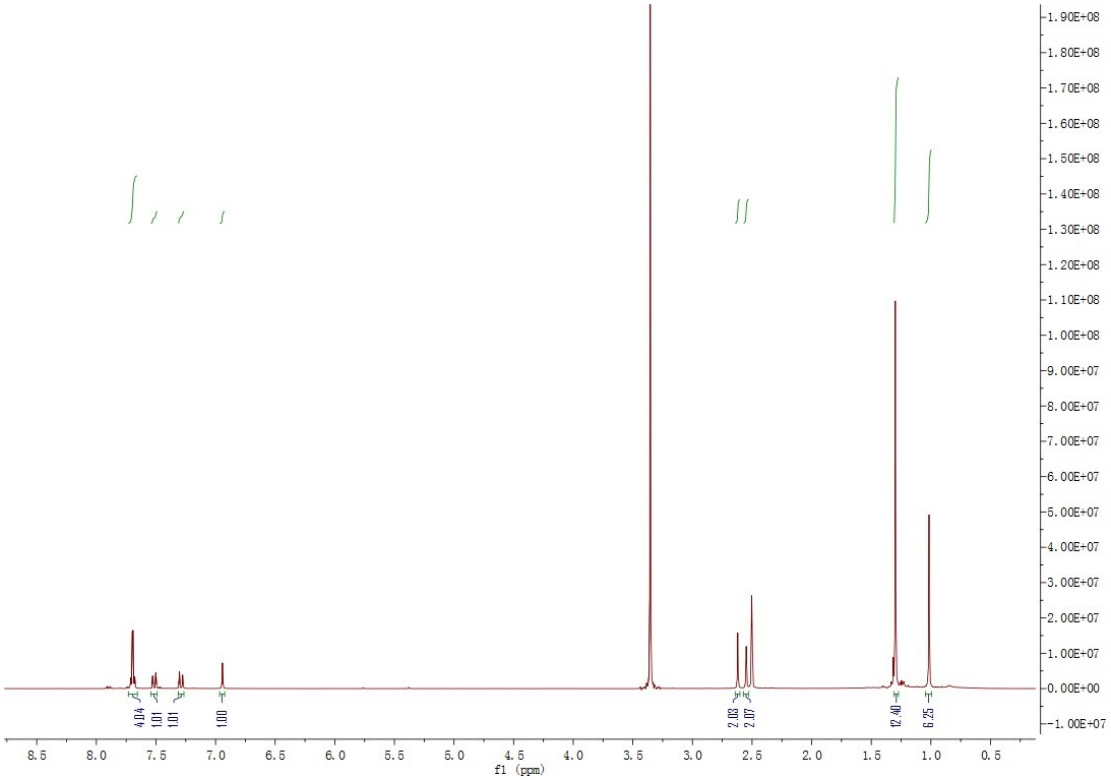


Fig. S1.[1]H NMR spectrum of probe DAB in DMSO-d_6.

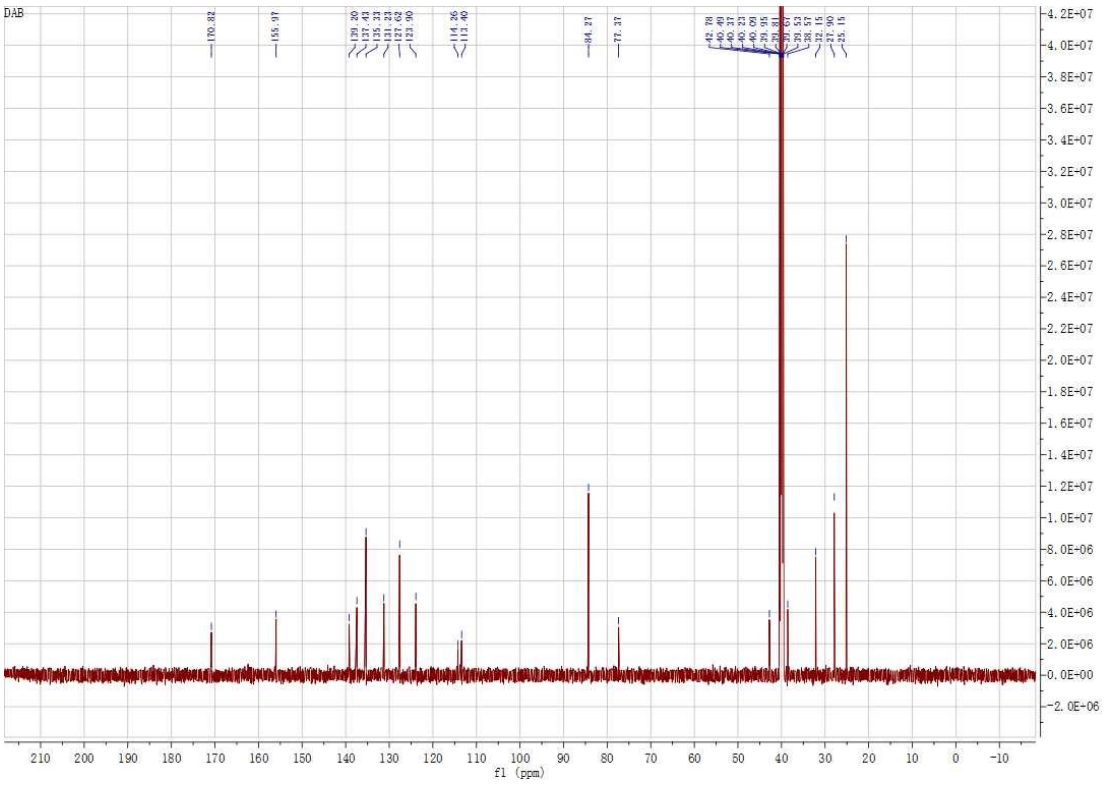


Fig. S2.[13]C NMR spectrum of probe DAB in DMSO-d_6.

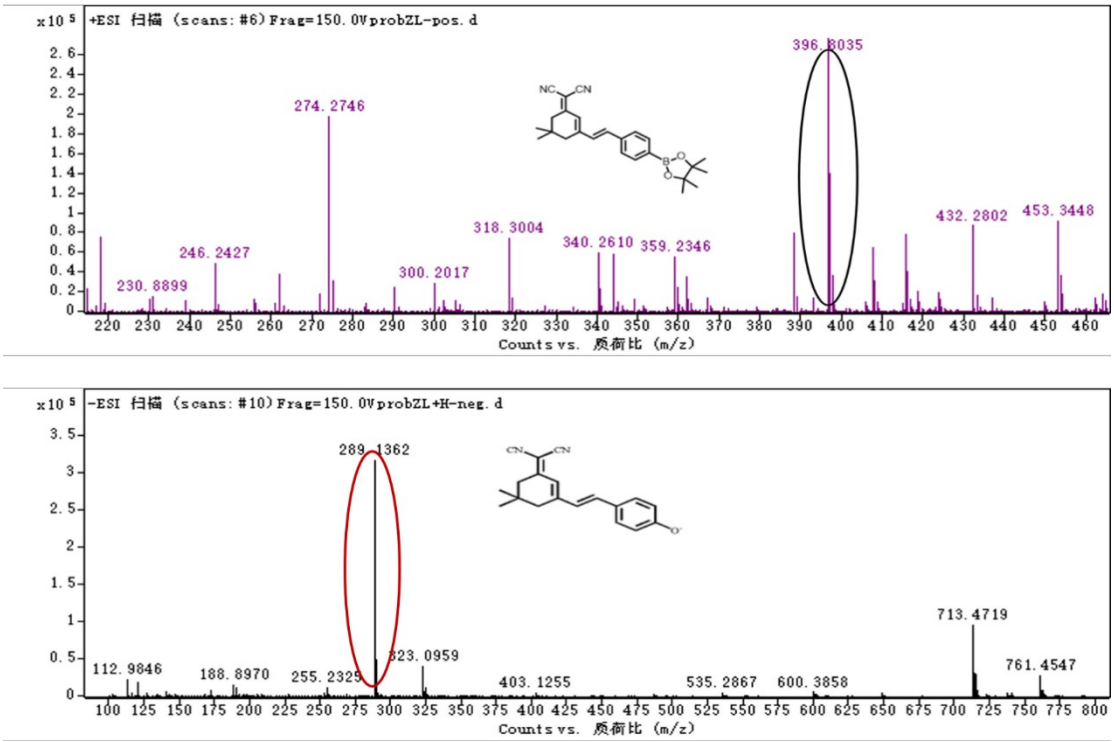


Fig. S3. Mass spectrum of probe DAB (A) and the crude product from the reaction of the probe with ClO^- (B).

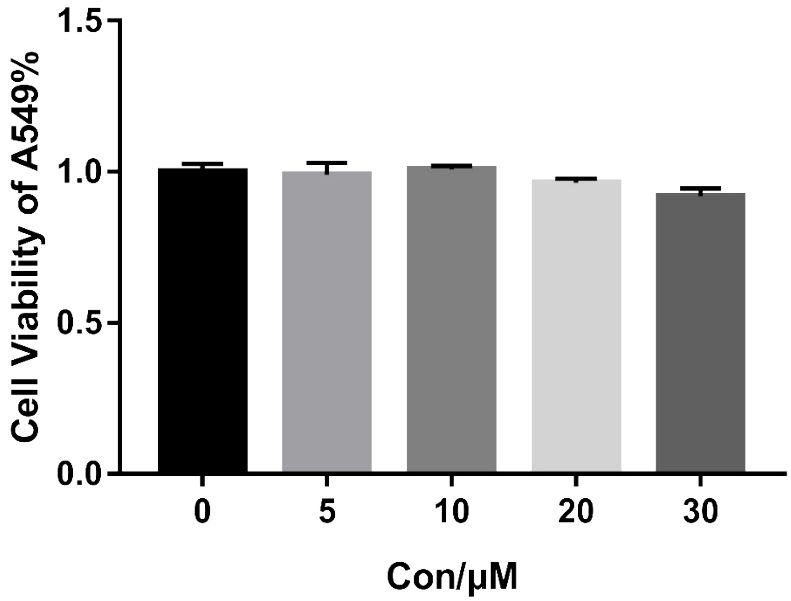
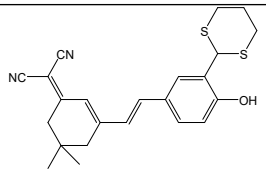
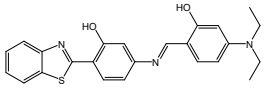
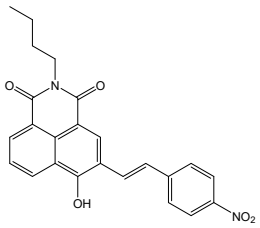
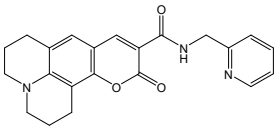
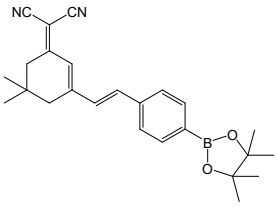


Fig. S4. Toxicity of various concentrations of probe DAB (0, 5, 10, 20, 30 μM) to A549 cells, the cell viability was detected by CCK-8.

Table S1. Comparison of fluorescence probes for ClO^-.

Probe	λ_{em} (nm)	Reaction time	LOD	biological system	Ref.
	590	Within 20 s	4.64 μM	Cell and zebrafish imaging	S1
	413	A few seconds	1.74 μM	Zebrafish imaging and water sample	S2
	523	Within 3 s	2.66 μM	Cell imaging and water sample	S3
	490	Within 2 min	1.4 μM	Tap water	S4
	660	Within 1 min	1.46 μM	Cell, zebrafish imaging and water sample	This work

References

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[2] S. Boeon, K. Hyeongjin, J. Soogyeong, K. Ki-Tae, Ki. Cheal, A benzothiazole-based fluorescent and colorimetric probe for the detection of ClO^- and its application to zebrafish and water sample, Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, 2022, 270: 120827.

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