

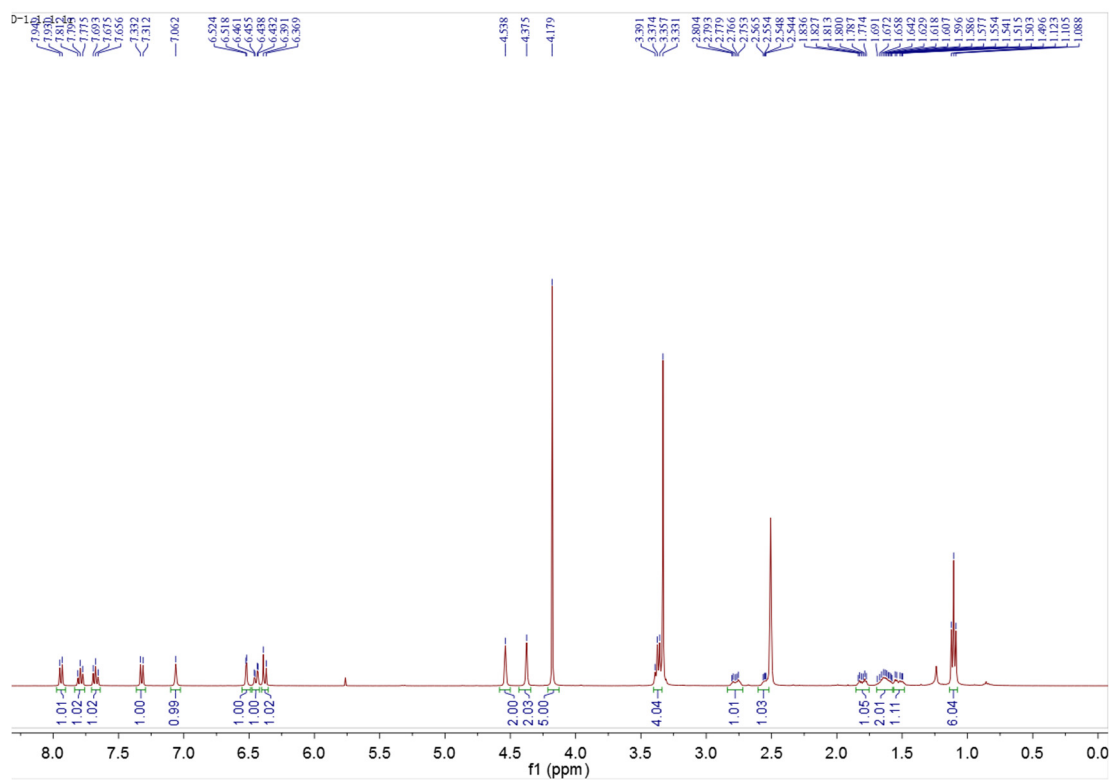
# *Supplementary Materials*

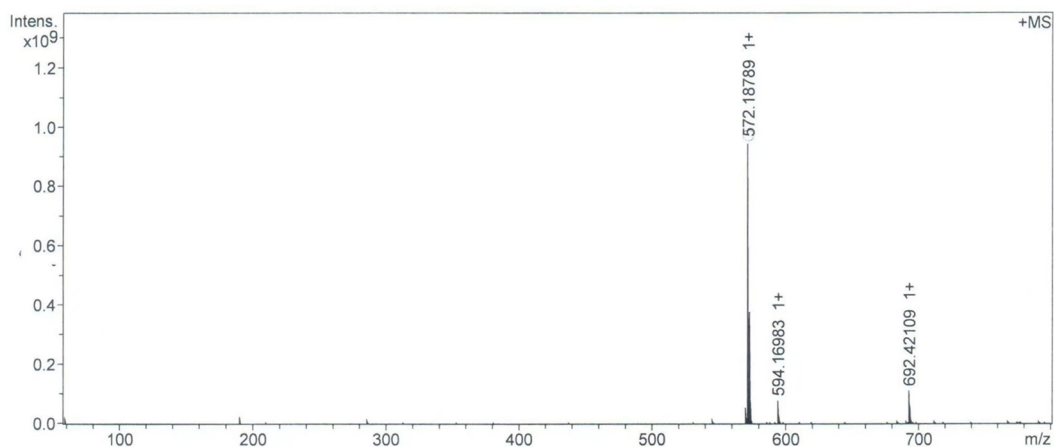
## **A Small-Molecule Fluorescent Probe for the Detection of Mitochondrial Peroxynitrite**

**Han Dong, Meng-Yu Tang, Shili Shen \*, Xiao-Qun Cao and Xiao-Fan Zhang \***

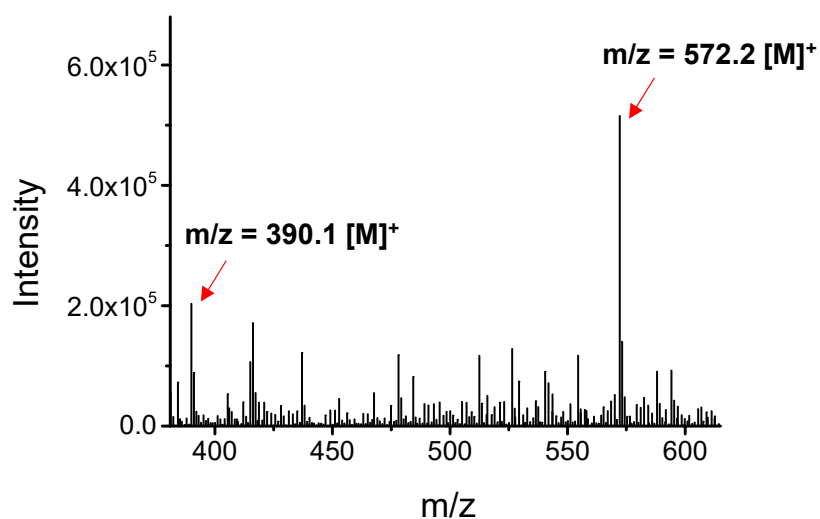
Institute of Optical Functional Materials for Biomedical Imaging,  
School of Chemistry and Pharmaceutical Engineering,  
Shandong First Medical University & Shandong Academy of Medical Sciences,  
Taian 271016, China; xqcao@sdfmu.edu.cn (X.-Q.C.)

\* Correspondence: slshen@sdfmu.edu.cn (S.S.); zhangxiaofan0912@163.com (X.-F.Z.)

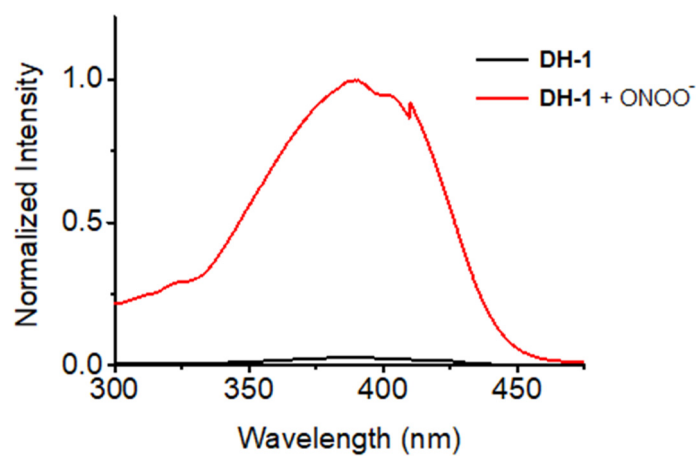




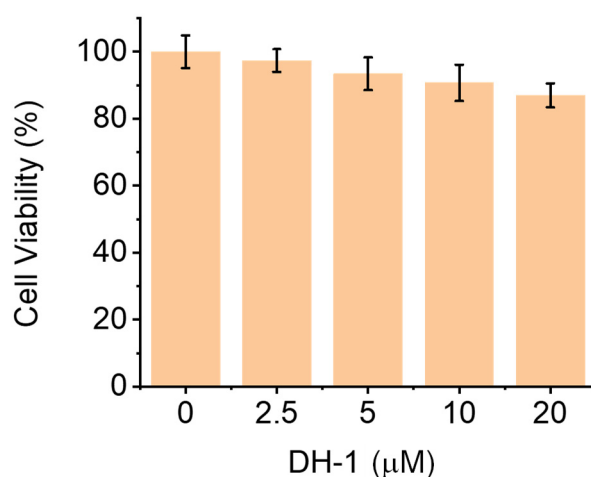
**Figure S3.** HRMS of **DH-1**.



**Figure S4.** MS of the reaction solution containing **DH-1** and  $\text{ONOO}^-$ .



**Figure S5.** Excitation spectra of **DH-1** before and after reaction with  $\text{ONOO}^-$ .



**Figure S6.** Viability of HeLa cells treated with **DH-1** at different concentrations (0-20  $\mu\text{M}$ ). The cell viability without probe was defined as 100%. Results were the mean  $\pm$  standard deviation of five separate measurements.

**Table S1.** Comparison of **DH-1** with other  $\text{ONOO}^-$  fluorescent probes.

Ref.	[1]	[2]	[3]	[4]	[5]	<b>This work</b>
Detection limit ( $\mu\text{M}$ )	0.93	100	2.5	0.917	1.8	<b>0.74</b>

## References

- [1] Liu, Y.Y.; Ma, Y.Y.; Lin, W.Y. Construction of a bi-functional ratiometric fluorescent probe for detection of endoplasmic reticulum viscosity and  $\text{ONOO}^-$  in cells and zebrafish. *Sens. Actuators B Chem.* **2022**, *373*, 132742.
- [2] Song, Z.; Mao, D.; Sung, S.H.P.; Kwok, R.T.K.; Lam, J.W.Y.; Kong, D.; Ding, D.; Tang, B.Z. Activatable fluorescent nanoprobe with aggregation-induced emission characteristics for selective in vivo imaging of elevated peroxynitrite generation. *Adv. Mater.* **2016**, *28*, 7249-7256.
- [3] Kim, J.; Park, J.; Lee, H.; Choi, Y.; Kim, Y. A boronate-based fluorescent probe for the selective detection of cellular peroxynitrite. *Chem. Commun.* **2014**, *50*, 9353-9356.

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- [5] Wu, J.; Yang, Y.Z.; Zhang, L.; Wang, H.; Yang, M.; Yuan, J.L. A visible-light-excited  $\text{Eu}^{3+}$  complex-based luminescent probe for highly sensitive time-gated luminescence imaging detection of intracellular peroxynitrite. *J. Mater. Chem. B* **2017**, *5*, 2322-2329.