Supplementary Information

Colorimetric detection of ozone in aqueous solution and imaging in living cells using a novel hemicyanine dye

Xia Gao^a, Guo Yu^b, Xuehan Liu^a, Yinlan Xu^a, Pengbo Zhang^{*a}and Weidong Wu^{*a}

^aSchool of Public Health, Xinxiang Medical University, Xinxiang, 453003, PR China;

^bXinxiang Center for Disease Control and Prevention, Xinxiang 453003, PR China;

* Corresponding author. E-mail: <u>wdwu2013@126.com</u> (Weidong Wu) <u>zpbxxmu@xxmu.edu.cn</u> (Pengbo Zhang)



Fig.S₁¹H NMR spectroscopy of compound 1(CDCl₃).



Fig.S₂¹³C NMR spectroscopy of compound 1(CDCl₃).



Fig.S₃ MS spectroscopy of compound 1 in sheme1.



Fig.S₄ ¹H NMR spectroscopy of the probe HCB (DMSO) .



Fig.S₅ 13 C NMR spectroscopy of the probe HCB (DMSO).









Fig.S₈ Results of the toxicity of HCB to RAW264.7 cells determined by CCK-8 method.







Fig.S₁₀ MS spectroscopy of HCB-O₃.



Fig.S₁₁¹H NMR spectra of probes HCB in DMSO-d6 and D₂O before and after the addition of O₃.