

## Accepted Manuscript

Title: A highly sensitive and rapidly responding fluorescent probe with a large Stokes shift for imaging intracellular hypochlorite

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PII: S0925-4005(16)30856-5  
DOI: <http://dx.doi.org/doi:10.1016/j.snb.2016.06.004>  
Reference: SNB 20330

To appear in: *Sensors and Actuators B*

Received date: 22-12-2015  
Revised date: 31-5-2016  
Accepted date: 1-6-2016

Please cite this article as: Bingpeng Guo, Hailiang Nie, Wen Yang, Yong Tian, Jing Jing, Xiaoling Zhang, A highly sensitive and rapidly responding fluorescent probe with a large Stokes shift for imaging intracellular hypochlorite, *Sensors and Actuators B: Chemical* <http://dx.doi.org/10.1016/j.snb.2016.06.004>

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**Highlights**

2 The probe has a large Stokes shift of 75 nm.

3 The probe allows the determination of  $\text{HClO}/\text{ClO}^-$  with a detection limit of 2.88 nM.4 The probe could detect  $\text{HClO}/\text{ClO}^-$  within 3 seconds.5 The probe displays high specificity toward  $\text{HClO}$  over other reactive oxygen species.6 The probe successfully applied to PMA-stimulated  $\text{HClO}$  generation in living cells.

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