

Accepted Manuscript

Title: A water-soluble fluorescent probe for monitoring hypochlorite in water and in living cells

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PII: S0925-4005(18)31170-5
DOI: <https://doi.org/10.1016/j.snb.2018.06.065>
Reference: SNB 24902

To appear in: *Sensors and Actuators B*

Received date: 14-10-2017
Revised date: 8-5-2018
Accepted date: 13-6-2018

Please cite this article as: Han J, Li Y, Wang Y, Bao X, Wang L, Ren L, Ni L, Li C, A water-soluble fluorescent probe for monitoring hypochlorite in water and in living cells, *Sensors and Actuators: B. Chemical* (2018), <https://doi.org/10.1016/j.snb.2018.06.065>

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A water-soluble fluorescent probe for monitoring hypochlorite in water and in living cells

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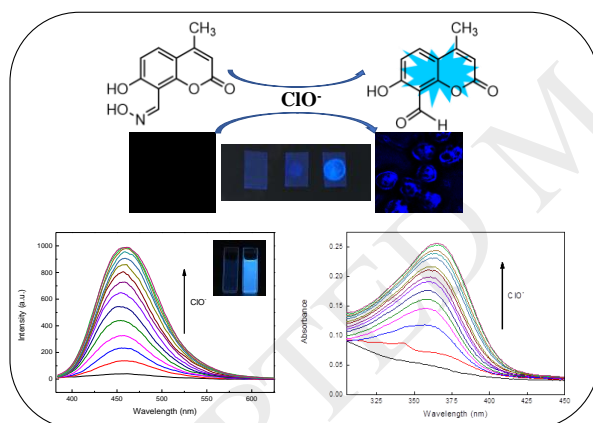
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Graphical abstract



Highlights

- The probe can detect ClO⁻ quantitatively with a detection limit as low as 8.3 nM.
- The probe shows high sensitivity toward ClO⁻ among other reactive oxygen species.
- The probe is able to detect ClO⁻ within 20 s.
- The probe is successfully employed to monitor and image ectogenous ClO⁻ in living cells.

Abstract:

A novel water-soluble fluorescent probe based on the removal of HON moiety was presented, which could monitor ClO⁻ with rapid response and excellent selectivity. In physiological pH

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