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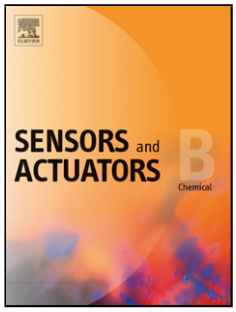

Title: Oxidation of Phenothiazine Based Fluorescent Probe for Hypochlorite and Its Application to Live Cell Imaging

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Oxidation of Phenothiazine Based Fluorescent Probe for Hypochlorite and Its Application to Live Cell Imaging

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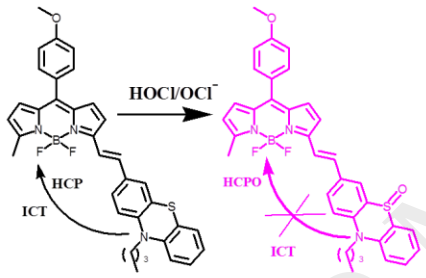
Graphical abstract



Graphical Abstract

Highlights

- Phenothiazine functionalized BODIPY has been synthesized and examined for hypochlorite detection.
- The probe selectively detects the hypochlorite over other ROS which was indicated by 47 nm blue shifted absorbance band and strong turn-on fluorescence emission.
- Sensing ability was almost stable throughout pH range from 3 to 10.
- Exogenous and endogenous presence of hypochlorite was successfully mapped in RAW 264.7 cells using phenothiazine functionalized BODIPY.

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