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Iminocoumarin-based fluorescence probe for intracellular H₂O₂ detection with a red emission and a large Stokes shift

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Research Highlights

- This probe was highly selective to H₂O₂ over other reactive oxygen species (ROS).
- This probe displayed a red fluorescence ($\lambda_{\text{emmax}} = 619 \text{ nm}$) and a large Stokes shift (148 nm) with a low detection limit ($6.0 \times 10^{-8} \text{ mol/L}$).
- This probe displayed a good performance in the detection of intracellular H₂O₂ in living cells.

Abstract

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