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ACCEPTED MANUSCRIPT

Fluorescent probe detect distinguishly sulfite/hydrogen sulfide and thiol via two emission channels in *vivo*

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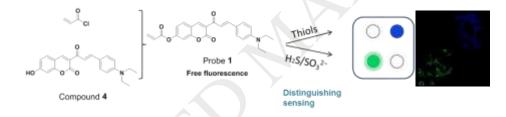
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Graphical Abstract

Abstract Graphics



Highlights

- A probe for detecting distinguishly sulfite/hydrogen sulfide and thiol via two emission channels was obtained.
- The recognition process showed different reaction properties between sulfite/hydrogen sulfide and thiol.
- The probe is low toxic and could be applied in bio-imaging and live mouse tissues.

Abstract

For SO₂, another Cys metabolite, to simultaneously distinguish SO₂ over thiols are still a challenge. Now we have successfully synthesized a novel coumarin-based

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