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# A lysosome-targeted two-photon fluorescence probe for imaging of sulfur dioxide derivatives in living cells and zebrafish

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## Highlights

- 1) A new lysosome-targeted two-photon fluorescent probe (**Na-SO<sub>2</sub>-Lyso**) was developed for detecting of sulfur dioxide.
- 2) The probe **Na-SO<sub>2</sub>-Lyso** exhibited excellent photo-stability, low cytotoxicity and fast response to SO<sub>2</sub>.
- 3) The probe **Na-SO<sub>2</sub>-Lyso** was successfully imaging of SO<sub>2</sub> in the lysosomes for the first time.
- 4) The probe **Na-SO<sub>2</sub>-Lyso** is applied for sensing SO<sub>2</sub> in the zebrafish in both the one- and two-photon modes.

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