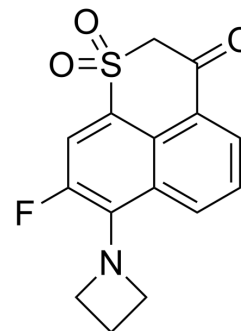


## CysOx2

Cat. No.:	HY-151505
Molecular Formula:	C <sub>15</sub> H <sub>12</sub> FNO <sub>3</sub> S
Molecular Weight:	305.32
Target:	Fluorescent Dye
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	CysOx2 is a reaction-based fluorogenic probe for sulfenic acid (Ex/Em: 394/535 nm). CysOx2 can be used for detecting protein cysteine oxidation in living cells <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	Sulfenic acid <sup>[1]</sup>
<b>In Vitro</b>	CysOx2 (1 mM; 1 h) reacts with H <sub>2</sub> O <sub>2</sub> and produces fluorescence in 50 mM HEPES pH 7.4 <sup>[1]</sup> . CysOx2 is cell permeable <sup>[1]</sup> . CysOx2 (50 μM; 1 h) shows fluorescence signal in epitope-tagged wild-type EGFR expression HeLa cells, the signal is absent in C797S EGFR expression HeLa cells <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Ferreira RB, et al. Reaction-based fluorogenic probes for detecting protein cysteine oxidation in living cells. Nat Commun. 2022 Sep 21;13(1):5522.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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