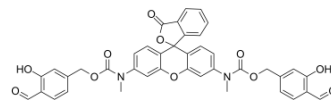


## HKPerox-1

Cat. No.:	HY-130022
CAS No.:	2240163-05-5
Molecular Formula:	C <sub>40</sub> H <sub>30</sub> N <sub>2</sub> O <sub>11</sub>
Molecular Weight:	714.67
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	HKPerox-1 is a yellow-emitting fluorescent probe with excellent selectivity and sensitivity toward H <sub>2</sub> O <sub>2</sub> . HKPerox-1 can be used for molecular imaging of endogenous H <sub>2</sub> O <sub>2</sub> in living cells <sup>[1]</sup> .
<b>In Vitro</b>	HKPerox-1 (1-20 μM; 24 h) is nontoxic to RAW264.7 macrophages <sup>[1]</sup> . HKPerox-1 (10 μM; 30 min) robustly visualizes endogenous H <sub>2</sub> O <sub>2</sub> production in macrophages in a selective manner <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Ye S, et, al. Tandem Payne/Dakin Reaction: A New Strategy for Hydrogen Peroxide Detection and Molecular Imaging. *Angew Chem Int Ed Engl*. 2018 Aug 6;57(32):10173-10177.

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

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