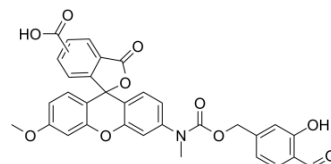


HKPerox-2

Cat. No.:	HY-D1157
CAS No.:	2245230-79-7
Molecular Formula:	C ₃₂ H ₂₃ NO ₁₀
Molecular Weight:	581.53
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	HKPerox-2 is an excellently selective and sensitive green fluorescent probe toward H ₂ O ₂ over 30-fold other tested ROS/RNS in chemical and biological systems. HKPerox-2 is a O-methyl rhodol derivative and specifically recognize H ₂ O ₂ based on a tandem payne/dakin reaction ^[1] .
In Vitro	HKPerox-2 is a O-methyl rhodol derivative and reaches a plateau within 30 min upon treatment of 100 μM H ₂ O ₂ , and the rate constants k_{obs} is determined to be 2.0×10^{-2} s for HKPerox2 ^[1] . HKPerox-2 (0-20 μM; 24 hours) is nontoxic to cells at working concentrations in RAW264.7 macrophages ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Sen Ye, 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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