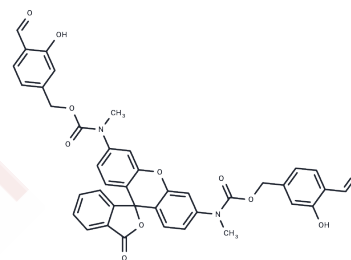


HKPerox-1

Chemical Properties

CAS No. :	2240163-05-5
Formula:	C ₄₀ H ₃₀ N ₂ O ₁₁
Molecular Weight:	714.683
Storage:	Keep away from direct sunlight Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	HKPerox-1 is a yellow-emitting fluorescent probe with excellent selectivity and sensitivity toward H ₂ O ₂ . HKPerox-1 can be used for molecular imaging of endogenous H ₂ O ₂ in living cells.
Targets(IC50)	Others
In vitro	HKPerox-1 (1-20 μM; 24 h) is nontoxic to RAW264.7 macrophages[1]. HKPerox-1 (10 μM; 30 min) robustly visualizes endogenous H ₂ O ₂ production in macrophages in a selective manner[1]. HKPerox-1 should be co-incubated with 100 μM of trichloroacetonitrile (CCl ₃ CN,) for H ₂ O ₂ detection and molecular imaging. DMSO should be avoided during H ₂ O ₂ detection, as DMSO could scavenge activated H ₂ O ₂ in the presence of CCl ₃ CN. DMF is the recommended solvent to prepare probe stock solution.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.3992 mL	6.9961 mL	13.9923 mL
5 mM	0.2798 mL	1.3992 mL	2.7985 mL
10 mM	0.1399 mL	0.6996 mL	1.3992 mL
50 mM	0.028 mL	0.1399 mL	0.2798 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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.

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