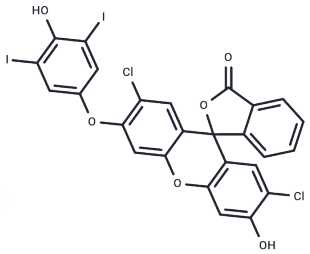
Data Sheet (Cat.No.T39434)

TargetMol

HKOH-1

Chemical Properties



CAS No. : 2031170-96-2

Formula: C26H12Cl2I2O6

Molecular Weight: 745.08

Storage: Keep away from direct sunlight
Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	HKOH-1 is a highly sensitive and selective fluorescent probe for detecting endogenous hydroxyl radicals [OH].
Targets(IC50)	Others,Reactive Oxygen Species
In vitro	HKOH-1 shows absorption peaks at 500 nm. In absence of ? OH, HKOH-1 is non-fluorescent[1]. HKOH-1r (0.1-50 μM; 24 h) shows negligible or no cytotoxicity in both RAW264.7 cells and Hela cells[1]. HKOH-1r (5 μM; 30 min) detects endogenous ? OH in the flow cytometry platform in RAW264.7 cells[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.3421 mL	6.7107 mL	13.4214 mL
5 mM	0.2684 mL	1.3421 mL	2.6843 mL
10 mM	0.1342 mL	0.6711 mL	1.3421 mL
50 mM	0.0268 mL	0.1342 mL	0.2684 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

Xiaoyu Bai, et al. HKOH-1: A Highly Sensitive and Selective Fluorescent Probe for Detecting Endogenous Hydroxyl Radicals in Living Cells. Angew Chem Int Ed Engl. 2017 Oct 9;56(42):12873-12877.

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