

HKOH-1r

Chemical Properties

CAS No. :	2138472-08-7
Formula:	C33H21Cl2I2NO11
Molecular Weight:	932.24
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	HKOH-1r is a highly sensitive and selective green fluorescent probe for detecting endogenous hydroxyl radicals ($\cdot\text{OH}$) in live cells, with maximum excitation and emission wavelengths at 500 nm and 520 nm, respectively. Within a concentration range of 0.1–50 μM , HKOH-1r exhibits low cytotoxicity toward RAW264.7 and HeLa cells. It has been used on flow cytometry platforms to detect intracellular endogenous $\cdot\text{OH}$ levels and is suitable for research on reactive oxygen species (ROS), oxidative stress, and related cellular damage mechanisms.
Targets(IC50)	Reactive Oxygen Species
In vitro	HKOH-1r (0.1–50 μM ; 24 h) shows negligible or no cytotoxicity in both RAW264.7 cells and HeLa cells. HKOH-1r (5 μM ; 30 min) detects endogenous $\cdot\text{OH}$ in the flow cytometry platform in RAW264.7 cells.

Solubility Information

Solubility	DMSO: 76 mg/mL (81.52 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.0727 mL	5.3634 mL	10.7269 mL
5 mM	0.2145 mL	1.0727 mL	2.1454 mL
10 mM	0.1073 mL	0.5363 mL	1.0727 mL
50 mM	0.0215 mL	0.1073 mL	0.2145 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

Bai X, 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.

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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