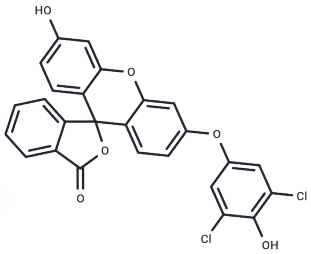
Data Sheet (Cat.No.T39431)

TargetMol

HKOCl-3

Chemical Properties



CAS No. : 2031170-80-4

Formula: C26H14Cl2O6

Molecular Weight: 493.29

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	HKOCl-3 is a fluorescent probe characterized by its high sensitivity and selectivity for hypochlorous acid detection, featuring an excitation wavelength (Ex) of 490 nm and an emission wavelength (Em) of 527 nm.
Targets(IC50)	Others
In vitro	HKOCl-3 (10 μM) exhibits a significant enhancement in fluorescence intensity proportional to the concentration of hypochlorous acid[1]. This increase is notably more pronounced when compared to the fluorescence intensity changes observed upon treatment with other reactive oxygen species (ROS) (10 μM) and reactive nitrogen species (RNS) (100 μM)[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0272 mL	10.136 mL	20.2721 mL
5 mM	0.4054 mL	2.0272 mL	4.0544 mL
10 mM	0.2027 mL	1.0136 mL	2.0272 mL
50 mM	0.0405 mL	0.2027 mL	0.4054 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

Dan Yang, et al. Diarylether-based fluorogenic probes for detection of hypochlorous acid or hydroxyl radical. Patent US20160312033.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481