

## HKOCl-4m

## Chemical Properties

CAS No. : 2031170-88-2

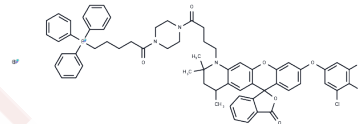
Formula: C<sub>63</sub>H<sub>61</sub>BrCl<sub>2</sub>N<sub>3</sub>O<sub>7</sub>P

Molecular Weight: 1153.97

Keep away from direct sunlight

Storage: 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-4m is a rhodol-based fluorescent probe designed for the specific and deliberate targeting of mitochondria, enabling the monitoring of mitochondrial hypochlorous acid (HOCl).
Targets(IC50)	Others
In vitro	HKOCl-4m (5 μM; 30 min) demonstrates a significant increase in fluorescence intensity following HOCl addition. It has proven effective for detecting endogenous HOCl in RAW264.7 mouse macrophages and holds potential for monitoring mitochondrial HOCl formation in live cells[1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.8666 mL	4.3329 mL	8.6657 mL
5 mM	0.1733 mL	0.8666 mL	1.7331 mL
10 mM	0.0867 mL	0.4333 mL	0.8666 mL
50 mM	0.0173 mL	0.0867 mL	0.1733 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. HKOCl-4: a rhodol-based yellow fluorescent probe for the detection of hypochlorous acid in living cells and tissues. Org. Chem. Front, 2020.

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