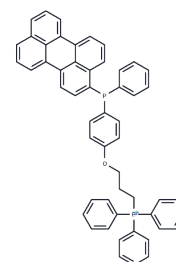


## MitoPeDPP

## Chemical Properties

CAS No. :	1187472-58-7
Formula:	C53H41IOP2
Molecular Weight:	882.74
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	MitoPeDPP serves as a cell-permeable fluorescent probe used to detect mitochondrial lipid peroxides. It exhibits selectivity for tert-butyl hydroperoxide (t-BHP) rather than hydrogen peroxide, superoxide, nitric oxide, or peroxyxynitrite. When oxidized by lipid peroxides, MitoPeDPP emits fluorescence at 470 nm when excited at 452 nm. Monitoring lipid peroxidation is crucial for understanding numerous cellular processes, particularly ferroptosis, an iron-dependent cell death marked by heightened lipid peroxidation.
Targets(IC50)	Others

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.1328 mL	5.6642 mL	11.3284 mL
5 mM	0.2266 mL	1.1328 mL	2.2657 mL
10 mM	0.1133 mL	0.5664 mL	1.1328 mL
50 mM	0.0227 mL	0.1133 mL	0.2266 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.

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