

## MitoPerOx

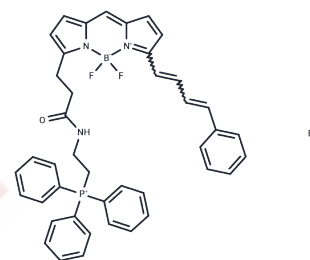
## Chemical Properties

CAS No. : 1392820-50-6

Formula: C42H38BBrF2N3OP

Molecular Weight: 760.47

Storage: Keep away from moisture, 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	MitoPerOx is a ratiometric fluorescent probe that can be used to assess changes in lipid peroxidation within mitochondria. It is composed of a BODIPY fluorophore conjugated via a dienyl link to a triphenylphosphonium cation component that drives its accumulation in mitochondria. MitoPerOx displays an excitation maximum of 495 nm and exhibits a shift in emission maxima from 590 to 520 nm upon mitochondrial lipid peroxidation, enabling determination of ratiometric measurements of lipid peroxidation in live cells.
Targets(IC50)	Mitochondrial Metabolism, Lipid

## Solubility Information

Solubility	DMSO: 100 mg/mL (131.5 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	1.315 mL	6.5749 mL	13.1498 mL
5 mM	0.263 mL	1.315 mL	2.630 mL
10 mM	0.1315 mL	0.6575 mL	1.315 mL
50 mM	0.0263 mL	0.1315 mL	0.263 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

Prime TA, et, al. A ratiometric fluorescent probe for assessing mitochondrial phospholipid peroxidation within living cells. Free Radic Biol Med. 2012 Aug 1;53(3):544-53.

Lyamzaev KG, et al. MitoClox: A Novel Mitochondria-Targeted Fluorescent Probe for Tracing Lipid Peroxidation. Oxid Med Cell Longev. 2019 Nov 13;2019:9710208.

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