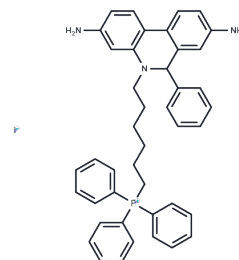


MitoSOX Red

Chemical Properties

CAS No. :	1003197-00-9
Formula:	C43H43IN3P
Molecular Weight:	759.7
Appearance:	no data available
Storage:	keep away from direct sunlight,store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	MitoSOX Red is a novel fluorescent probe that is specific and cell membrane-permeable and targets mitochondria in living cells. MitoSOX Red is oxidized by superoxide upon entry into the mitochondria and is not oxidized by other ROS or RNS-generating systems. MitoSOX Red then binds to nucleic acids in the mitochondrion and produces a strong red fluorescence. MitoSOX Red can be used as a fluorescent indicator for the specific detection of superoxide. MitoSOX Red can be used as a fluorescent indicator for the specific detection of superoxide. MitoSOX Red can be used as a fluorescent indicator to specifically detect superoxide. Superoxide dismutase (SOD) prevents the oxidation of MitoSOX Red.
Targets(IC50)	Reactive Oxygen Species, Mitochondrial Metabolism, Autophagy

Solubility Information

Solubility	DMSO: 135.0 mg/mL (177.7 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	1.3163 mL	6.5815 mL	13.1631 mL
5 mM	0.2633 mL	1.3163 mL	2.6326 mL
10 mM	0.1316 mL	0.6582 mL	1.3163 mL
50 mM	0.0263 mL	0.1316 mL	0.2633 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.

Reference

Price OT, et al. Quantitative fluorescence of 5-FU-treated fetal rat limbs using confocal laser scanning microscopy and Lysotracker Red. Cytometry A. 2003;53(1):9-21.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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