

Mitoquinol

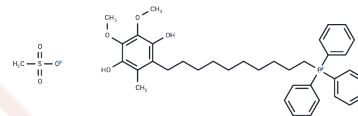
Chemical Properties

CAS No. : 845959-55-9

Formula: C₃₈H₄₉O₇PS

Molecular Weight: 680.83

Storage: Store at low temperature, 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	Mitoquinol is a mitochondria-targeted antioxidant used in the study of cardiovascular disease by modulating the mitochondrial antioxidant defense system to reduce DEN-induced oxidative stress.
Targets(IC50)	Antioxidant, Reactive Oxygen Species

Solubility Information

Solubility	DMSO: 20 mg/mL (29.38 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	1.4688 mL	7.344 mL	14.688 mL
5 mM	0.2938 mL	1.4688 mL	2.9376 mL
10 mM	0.1469 mL	0.7344 mL	1.4688 mL
50 mM	0.0294 mL	0.1469 mL	0.2938 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

Adisa RA, et al. Mitoquinol mesylate (MITOQ) attenuates diethyl nitrosamine-induced hepatocellular carcinoma through modulation of mitochondrial antioxidant defense systems. Toxicol Res. 2021 Nov 8;38(3):275-291.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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