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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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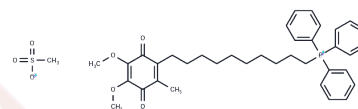
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Mitoquinone mesylate

Chemical Properties

CAS No. :	845959-50-4
Formula:	C ₃₈ H ₄₇ O ₇ PS
Molecular Weight:	678.81
Appearance:	no data available
Storage:	store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Mitoquinone mesylate (MitoQ10 mesylate) is a TPP-based, mitochondrially targeted antioxidant to protect against oxidative damage.
Targets(IC50)	Reactive Oxygen Species
In vitro	Normal rat kidney (NRK) cells exposed to CS result in a ~2-fold increase in fluorescence due to mitochondrial superoxide compared with untreated cells. Mitoquinone offers significant protection against CS-induced mitochondrial superoxide generation[1].
In vivo	Mitoquinone (MitoQ) treatment nearly doubles lung MPO activity induced by Caerulein with a significant increase of serum IL-6 levels also evident at 10?mg/kg (dose 1)[2].

Solubility Information

Solubility	DMSO: 50 mg/mL (73.66 mM),Sonication is recommended. H ₂ O: < 0.1 mg/mL (insoluble), < 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.4732 mL	7.3658 mL	14.7317 mL
5 mM	0.2946 mL	1.4732 mL	2.9463 mL
10 mM	0.1473 mL	0.7366 mL	1.4732 mL
50 mM	0.0295 mL	0.1473 mL	0.2946 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

Huang X, Liang N, Zhang F, et al.Lovastatin-Induced Mitochondrial Oxidative Stress Leads to the Release of mtDNA to Promote Apoptosis by Activating cGAS-STING Pathway in Human Colorectal Cancer Cells.Antioxidants.2024, 13

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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