

Mitoquinone

Chemical Properties

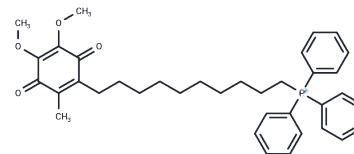
CAS No. : 444890-41-9

Formula: C₃₇H₄₄O₄P

Molecular Weight: 583.72

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	Mitoquinone is a TPP-based, mitochondrially targeted antioxidant .
Targets(IC50)	Others
In vitro	Mitoquinone offers significant protection against CS-induced mitochondrial superoxide generation; whereas the control compound DecylTPP does not offer any protection. Mitoquinone treatment markedly decreases mitochondrial superoxide generation, whereas kidneys treated with DecylTPP have comparable levels of mitochondrial superoxide to kidneys exposed to CS alone[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].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7132 mL	8.5658 mL	17.1315 mL
5 mM	0.3426 mL	1.7132 mL	3.4263 mL
10 mM	0.1713 mL	0.8566 mL	1.7132 mL
50 mM	0.0343 mL	0.1713 mL	0.3426 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

Xiong J, Wang L, Feng Y, et al. Geldanamycin confers fungicidal properties to azole by triggering the activation of succinate dehydrogenase. Life Sciences. 2024: 122699.

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