

SKQ-1 chloride

Chemical Properties

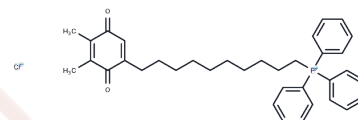
CAS No. : 1372443-45-2

Formula: C₃₆H₄₂ClO₂P

Molecular Weight: 573.14

Storage: 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	SKQ1, also known as Visomitin or plastoquinonyl decyltriphenyl phosphonium (PDTP), is a potent mitochondrial-targeted antioxidant. As the active pharmaceutical ingredient (API) in Visomitin eye drops, SKQ1 exhibits various biomedical activities: (1) prevents impairment of long-term potentiation in rat hippocampal slices caused by amyloid β -protein; (2) reverses aging-related biomarkers in rats; (3) slows age-related degenerative changes in the retinas and choroid of Wistar and OXYS rats; (4) extends the lifespan of male rodents in LP or SPF conditions. SKQ1 can penetrate cell membranes and is proposed for use in anti-aging therapies. Clinical trials for SKQ1 are currently underway in Russia to treat glaucoma. For convenience, SKQ1 is provided as an ethanol-water (1:1, v/v) solution at a concentration of 200 mg/mL.
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7448 mL	8.7239 mL	17.4477 mL
5 mM	0.349 mL	1.7448 mL	3.4895 mL
10 mM	0.1745 mL	0.8724 mL	1.7448 mL
50 mM	0.0349 mL	0.1745 mL	0.349 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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