

Coenzyme Q10

Chemical Properties

CAS No. : 303-98-0

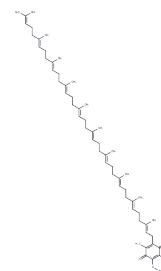
Formula: C₅₉H₉₀O₄

Molecular Weight: 863.34

Storage: Store at low temperature, The compound is unstable in solution. Please use soon

Powder: -20°C for 3 years

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Coenzyme Q10 (CoQ10) (ubiquinone) is a naturally occurring compound, acting as the electron carrier in the mitochondrial respiratory chain.
Targets(IC50)	Ferroptosis, Reactive Oxygen Species, Endogenous Metabolite, ROS
In vivo	Coenzyme Q10 plays a critical role in the electron transport chain and participates in cellular aerobic respiration, generating energy in the form of adenosine triphosphate (ATP). It effectively protects retinal cells from damage under conditions of oxidative stress or hypoglycemia. Moreover, in vitro, Coenzyme Q10 safeguards cells against cytotoxicity induced by glutamate in its various obstructive forms.

Solubility Information

Solubility	DMF: 1 mg/mL (1.16 mM), Sonication and heating are recommended. DMSO: < 1 mg/mL (insoluble or slightly soluble), The compound is unstable in solution, please use soon. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.1583 mL	5.7915 mL	11.5829 mL
5 mM	0.2317 mL	1.1583 mL	2.3166 mL
10 mM	0.1158 mL	0.5791 mL	1.1583 mL
50 mM	0.0232 mL	0.1158 mL	0.2317 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

Crane FL, J Am Coll Nutr, 2001, 20(6), 591-598.

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