Data Sheet (Cat.No.T36114)

TargetMol

Coenzyme Q2

Chemical Properties

CAS No. : 606-06-4

Formula: C19H26O4

Molecular Weight: 318.413

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	Coenzyme Q10 is a component of the electron transport chain and participates in aerobic cellular respiration, generating energy in the form of ATP. In its reduced form, it acts as an antioxidant. Coenzyme Q2 is a precursor of coenzyme Q10 that has 2, rather than 10, isoprenoid units on the ubiquinone base. It can act as an electron acceptor for bacterial Complex I. In mammalian cells, exogenous coenzyme Q2 prevents the production of reactive oxygen species associated with Complex I activity. Forms of coenzyme Q with shorter isoprenoid chains, including coenzyme Q2, induce p53-dependent apoptosis in human B-cell acute lymphoblastoid leukemia BALL-1 cells.
Targets(IC50)	Others

Solubility Information

Solubility	DMF: 10 mg/mL (31.41 mM),Sonication is recommended. Ethanol: 10 mg/mL (31.41 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1406 mL	15.703 mL	31.406 mL
5 mM	0.6281 mL	3.1406 mL	6.2812 mL
10 mM	0.3141 mL	1.5703 mL	3.1406 mL
50 mM	0.0628 mL	0.3141 mL	0.6281 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.

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