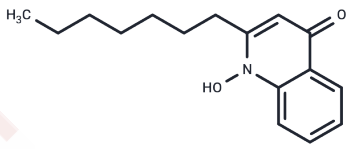
Data Sheet (Cat.No.T8433)

TargetMol

HQNO

Chemical Properties



CAS No. : 341-88-8

Formula: C16H21NO2

Molecular Weight: 259.34

Storage: Keep away from moisture
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	HQNO is a natural product isolated from P. aeruginosa,and is a potent inhibitor of electron transport chain(Kd of 64 nM for complex III). It also is a potent mitochondrial NDH-2 inhibitorin many species.
Targets(IC50)	Mitochondrial Metabolism

Solubility Information

Solubility	DMSO: 2.6 mg/mL (10.03 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.8559 mL	19.2797 mL	38.5594 mL
5 mM	0.7712 mL	3.8559 mL	7.7119 mL
10 mM	0.3856 mL	1.928 mL	3.8559 mL
50 mM	0.0771 mL	0.3856 mL	0.7712 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

Jessica Petri, et al. Structure of the NDH-2 - HQNO Inhibited Complex Provides Molecular Insight Into Quinone-Binding Site Inhibitors. Biochim Biophys Acta Bioenerg. 2018 Jul;1859(7):482-490.
Kang J , Kim Y J . HQNO-sensitive NADH:Quinone Oxidoreductase of Bacillus cereus KCTC 3674[J]. J Biochem Mol Biol, 2007, 40(1):53-57.

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