

Chemical Properties

Formula: $C_{19}H_{30}O_5$

CCCCCCCCC1=C(C)C(=O)C(OC)C(=O)C1OC

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

Description	Idebenone (CV-2619) is a synthetic analogue of ubiquinone (Coenzyme Q10), a vital cell antioxidant and essential component of the Electron Transport Chain (ETC).
Targets(IC50)	Apoptosis,Antioxidant,Mitochondrial Metabolism
In vitro	Idebenone increases ATP production required for mitochondrial function, reduces free radicals, inhibits lipid peroxidation, and consequently protects the lipid membrane and mitochondria from oxidative damage.

Solubility	DMSO: 40 mg/mL (118.19 mM),Sonication is recommended. H2O: < 1 mg/mL (insoluble or slightly soluble), Ethanol: 63 mg/mL (186.15 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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	1mg	5mg	10mg
1 mM	2.9547 mL	14.7737 mL	29.5473 mL
5 mM	0.5909 mL	2.9547 mL	5.9095 mL
10 mM	0.2955 mL	1.4774 mL	2.9547 mL
50 mM	0.0591 mL	0.2955 mL	0.5909 mL

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Reference

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