

Product Information

Idebenone, Purity $\geq 98\%$

Cat. No.: X24-09-YM1126

Size: 50 mg; 100 mg; 200 mg; 500 mg

MDL: MFCD00274552

CAS Number: 58186-27-9

Compound CID: 3686

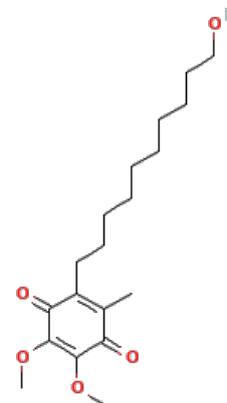
Synonym: 58186-27-9;

2-(10-hydroxydecyl)-5,6-dimethoxy-3-methylcyclohexa-2,5-diene-1,4-dione;

Idebenona; Idebenonum; Sovrima; Hydroxydecyl ubiquinone; CV 2619; CV-2619;

Oristar hdu;

2-(10-Hydroxydecyl)-5,6-dimethoxy-3-methylcyclohexa-2,5-diene-1,4-dione



This product is for research use only and is not intended for diagnostic use.

Product Information

Description	Idebenone, soluble in DMSO and ethanol and insoluble in water, is an organic compound of the quinone family. The molecular weight of the compound is 338.44, and its molecular formula is $C_{19}H_{30}O_5$.
Molecular Weight	338.44
Molecular Formula	$C_{19}H_{30}O_5$
IUPAC Name	2-(10-Hydroxydecyl)-5,6-dimethoxy-3-methylcyclohexa-2,5-diene-1,4-dione
InChI	InChI=1S/C19H30O5/c1-14-15(12-10-8-6-4-5-7-9-11-13-20)17(22)19(24-3)18(23-2)16(14)21/h20H, 4-13H2,1-3H3
InChI Key	JGPMMRGNQUBGND-UHFFFAOYSA-N
Canonical SMILES	<chem>CC1=C(C(=O)C(=C(C1=O)OC)OC)CCCCCCCCCO</chem>
Isomeric SMILES	<chem>COC(=O)C1=CO[C@H]([C@H]2[C@@H]1CC=C2CO)O[C@H]3[C@@H]([C@H]([C@@H]([C@H](O3)CO)O)O)O</chem>
Form	Lyophilized powder
Purity	$\geq 98\%$
Impurities	Free from inappropriate visible particulates, foreign matter, discoloration, or other defects.
Solubility	<i>In vitro</i> : DMSO: 60 mg/mL (177.28 mM); Water: insoluble; Ethanol: 60 mg/mL (177.28 mM)
Identity	Confirmed by NMR/HPLC/MS.



Stability	In its lyophilized form, the chemical remains stable for 36 months.
Quality Level	Research grade
Applications	Idebenone can be used for its ability to modulate mitochondrial function, enhancing ATP production, and inhibiting cellular apoptosis.
Storage	Store at -20°C, and keep desiccated.
