

Decylubiquinone, MPTP inhibitor

 Catalog
 Unit

 TBI2580-10MG
 10 mg

 TBI2580-50MG
 50 mg

Product Details

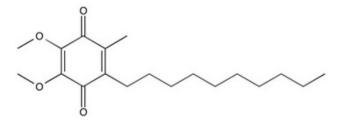
Formal Name: 2,3-Dimethoxy-5-methyl-6-decyl-1,4-benzoquinone

Molecular Formula: C₁₉H₃₀O₄ **Formula Weight:** 322.44 **CAS Number:** 55486-00-5

Purity: >98% **Formulation:** powder

Solubility: Soluble in DMSO (up to 10 mg/ml)

Storage: -20° C Stability: ≥ 1 year.



Applications

MPTP inhibitor

Functions

Inhibits the Ca2+ dependent mitochondrial permeability transition pore (MPTP) without inhibiting respiration. Maximum effect on Ca2+ retention capacity of rat liver mitochondria at 100 μ M. Inhibits etoposide-induced apoptosis in in L929 cells at 5 μ M via inhibition of cytochrome c release. Delays rotenone-induced cardiac dysfunction in a zebrafish model of development and cardiovascular function. Substrate for various quinone oxidoreductases.

Application Procedures

First dissolved in DMSO (up to 10 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 1 month.

For research use only.