

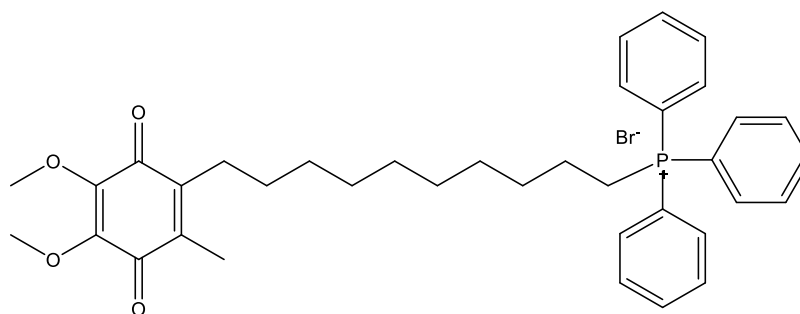
Catalog # 10-1363

Mitoquinone

CAS# 444890-41-9

10-(6'-Ubiquinonyl)decyltriphenylphosphonium bromide

Lot # M101061



A mitochondria-targeted antioxidant. Displays cardio- and neuroprotective effects¹. Displays beneficial effects in mouse models of Alzheimer's disease². Protects pancreatic β -cells against oxidative stress and improves insulin secretion³. Cell permeable.

- 1) Ghosh *et al.* (2010), *Neuroprotection by a mitochondria-targeted drug in a Parkinson's disease model*; Free Radic. Biol. Med., **49** 1674
- 2) McManus *et al.* (2011), *The mitochondria-targeted antioxidant MitoQ prevents loss of spatial memory retention and early neuropathology in a transgenic mouse model of Alzheimer's disease*; J. Neurosci., **31** 15703
- 3) Lim *et al.* (2011), *Mitochondria-targeted antioxidants protect pancreatic β -cells against oxidative stress and improve insulin secretion in glucotoxicity and lipotoxicity*; Cell Physiol. Biochem., **28** 873
- 4) Deng *et al.* (2019), *Myo-inositol oxygenase expression profile modulates pathogenic ferroptosis in the renal proximal tubule*; J. Clin. Invest., **129** 5033 [**Focus Citation**]

PHYSICAL DATA

Molecular Weight:	663.64
Molecular Formula:	C ₃₇ H ₄₄ BrO ₄ P
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (70 mg/mL); ethanol (30 mg/mL)
Physical Description:	Orange waxy solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 3 years from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 3 months.

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