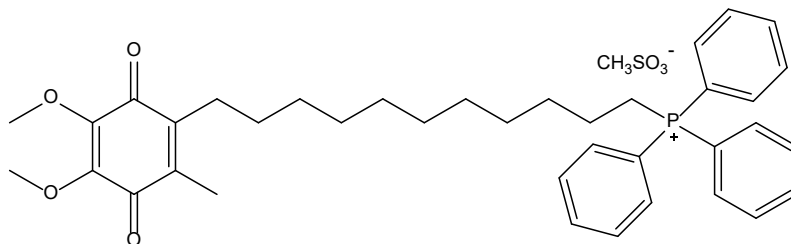




Catalog# 10-3915

Mitoquinone mesylate (25 wt%)/ β -cyclodextrin complex

Lot # FBA7122



The β -cyclodextrin complex of Mitoquinone mesylate is an easier to use, less deliquescent form of the useful mitochondrial antioxidant Mitoquinone. Water soluble and useable for animal studies.

- 1) Rodriguez-Cuenca *et al.* (2010), *Consequences of long-term oral administration of the mitochondria-targeted antioxidant MitoQ to wild-type mice*; Free Radic. Biol. Med., **48** 161
- 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) Mercer *et al.* (2012), *The mitochondria-targeted antioxidant MitoQ decreases features of the metabolic syndrome in ATM $\pm$ /ApoE $^{-/-}$ mice* Free Radic. Biol. Med., **52** 841
- 4) Imai *et al.* (2018), *Effect of a mitochondrial-targeted coenzyme Q analog on pancreatic β -cell function and energetics in high fat fed obese mice*; Pharmacol. Res. Perspect., **6** e00393

PHYSICAL DATA

Molecular Weight:	678.81 Mitoquinone mesylate; 1134.98 β -cyclodextrin
Molecular Formula:	C ₃₈ H ₄₇ O ₇ PS Mitoquinone mesylate; C ₄₂ H ₇₀ O ₃₅ β -cyclodextrin
Purity:	>98% by TLC (for Mitoquinone mesylate) NMR: (Conforms)
Solubility:	Water (up to 12 mg/ml)
Physical Description:	Orange solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 1 year from the date of purchase. Solutions in water may be stored at -20°C for up to 1 month.

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.