

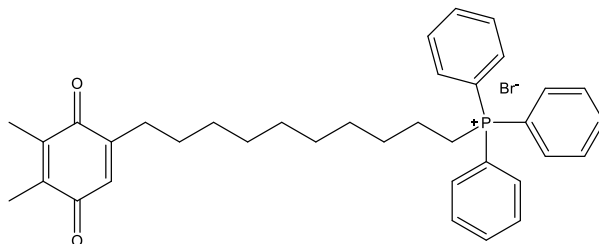
**Catalog # 10-3913**

**Visomitin**

CAS# 934826-68-3

10-(4,5-Dimethyl-3,6-dioxocyclohexa-1,4-dien-1-yl)decyltriphenylphosphonium bromide; SKQ1

Lot # FBS3026



Visomitin is a mitochondria-targeted antioxidant.<sup>1,2</sup> A useful tool for studying mitochondrial oxidative stress involvement in many disease states.<sup>3-6</sup> In clinical trials for the treatment of various eye disorders including dry eye, glaucoma, and ocular inflammation.<sup>7,8</sup>

- 1) Antonenko *et al.* (2008), *Mitochondria-targeted plastoquinone derivatives as tools to interrupt execution of the aging program. 1. Cationic plastoquinone derivatives: synthesis and in vitro studies*; Biochemistry (Mosc.), **73** 1273
- 2) Antonenko *et al.* (2008), *Mitochondria-targeted plastoquinone derivatives as tools to interrupt execution of the aging program. 2. Treatment of some ROS- and age-related diseases (heart arrhythmia, heart infarctions, kidney ischemia, and stroke)*; Biochemistry (Mosc.), **73** 1288
- 3) Skulachev *et al.* (2013), *Cationic antioxidants as a powerful tool against mitochondrial oxidative stress*; Biochem. Biophys. Res. Commun., **441** 275
- 4) Silva *et al.* (2016), *Targeting Mitochondria in Cardiovascular Disease*; Curr. Pharm. Des., **22** 5698
- 5) Isaev *et al.* (2016), *Neuroprotective properties of mitochondria-targeted antioxidants of the SkQ-type*; Rev. Neurosci., **27** 849
- 6) Tabara *et al.* (2014), *Mitochondria-targeted therapies for acute kidney injury*; Expert Rev. Mol. Med., **16** e13
- 7) Brzheskiy *et al.* (2015), *Results of a Multicenter, Randomized, Double-Masked, Placebo-Controlled Clinical Study of the Efficacy and Safety of Visomitin Eye Drops in Patients with Dry Eye Syndrome*; Adv. Ther., **32** 1263
- 8) Wei *et al.* (2019), *The Role of SKQ1 (Visomitin) in Inflammation and Wound Healing of the Ocular Surface*; Ophthalmol. Ther., **8** 63

**PHYSICAL DATA**

Molecular Weight:	617.61
Molecular Formula:	C <sub>36</sub> H <sub>42</sub> BrO <sub>2</sub> P
Purity:	98% byTLC
	NMR: (Conforms)
Solubility:	DMSO (50 mg/ml)
Physical Description:	Thick orange oil/gum. Product is very hygroscopic.
Storage and Stability:	Store as supplied at -20°C for up to 1 year from the date of purchase.
	Solutions in DMSO 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.**