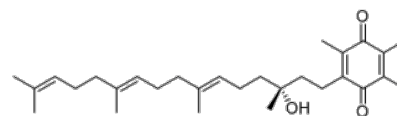


Product Name : EPI-743
Cat. No. : PC-61856
CAS No. : 1213269-98-7
Molecular Formula : C₂₉H₄₄O₃
Molecular Weight : 440.668
Target : Ferroptosis
Solubility : 10 mM in DMSO



1. Enns GM, et al. *Mol Genet Metab.* 2012 Jan;105(1):91-102.
2. Martinelli D, et al. *Mol Genet Metab.* 2012 Nov;107(3):383-8.
3. Sadun AA, et al. *Arch Neurol.* 2012 Mar;69(3):331-8.

Biological Activity

EPI-743 (Vatiquinone, ATQ3) is an orally bioavailable para-benzoquinone and vitamin-E related compound, shows potent cellular protectant against oxidative stress and aging, inhibits RSL3-induced **ferroptosis**.

EPI-743 (Vatiquinone, ATQ3) prevents RSL3-induced ferroptosis in PCH6 patient fibroblasts with mean EC50 potency values of 17.3-21.8 nM.

EPI-743 (Vatiquinone, ATQ3) is orally bioavailable, crosses the blood-brain barrier, and has demonstrated clinical response in inherited mitochondrial disease in open label studies.

EPI-743 (Vatiquinone, ATQ3) shows potential for treatment of inherited mitochondrial diseases.

EPI-743 (Vatiquinone, ATQ3) is an analogue of the antioxidant ubidecarenone.

References

4. Shrader WD, et al. *Bioorg Med Chem Lett.* 2011 Jun 15;21(12):3693-8.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

E-mail: tech@probechem.com