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Produktinformation



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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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PRODUCT INFORMATION



SKQ1 (bromide)

Item No. 19891

CAS Registry No.: 934826-68-3

Formal Name: [10-(4,5-dimethyl-3,6-dioxo-1,4-cyclohexadien-1-yl)decyl]triphenylphosphonium, monobromide

MF: $C_{36}H_{42}O_2P \cdot Br$

FW: 617.6

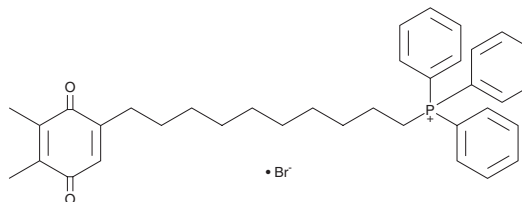
Purity: $\geq 95\%$

UV/Vis.: λ_{max} : 225, 261 nm

Supplied as: A solution in ethanol and water (1:1)

Storage: $-20^{\circ}C$

Stability: ≥ 1 year



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

SKQ1 (bromide) is supplied as a solution in ethanol and water (1:1). To change the solvent, simply evaporate the SKQ1 (bromide) under a gentle stream of nitrogen and immediately add the solvent of choice. SKQ1 (bromide) is miscible in ethanol.

Description

SKQ1 (bromide) is a mitochondria-targeted antioxidant that decreases transmembrane potential and production of reactive oxygen species (ROS).¹ SKQ1 prevents neuronal loss and synaptic damage in a rat model of spontaneous Alzheimer's disease, as well as decreases severity of arthritic lesions in rats.^{2,3} SKQ1 slows development of age-related ocular pathologies in murine, porcine, bovine, and canine model systems.⁴ It also prevents acute phenoptosis following rhabdomyolysis, stroke, and myocardial infarction.⁵⁻⁷

References

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3. Andreev-Andrievskiy, A.A., Kolosova, N.G., Stefanova, N.A., *et al.* Efficacy of mitochondrial antioxidant plastoquinonyl-decyl-triphenylphosphonium bromide (SkQ1) in the rat model of autoimmune arthritis. *Oxid. Med. Cell. Longev.* **8703645** (2016).
4. Skulachev, M.V., Severin, F.F., and Skulachev, V.P. Receptor regulation of senile phenoptosis. *Biochemistry (Mosc.)* **79**(10), 994-1003 (2014).
5. Plotnikov, E.Y., Chupurkina, A.A., Jankauskas, S.S., *et al.* Mechanisms of nephroprotective effect of mitochondria-targeted antioxidants under rhabdomyolysis and ischemia/reperfusion. *Biochimica et Biophysica Acta* **1812**(1), 77-86 (2011).
6. Plotnikov, E.Y., Morosanova, M.A., Pevzner, I.B., *et al.* Protective effect of mitochondria-targeted antioxidants in an acute bacterial infection. *Proc. Natl. Acad. Sci. USA* **110**(33), E3100-E3108 (2013).
7. Skulachev, V.P., Anisimov, V.N., Antonenko, Y.N., *et al.* An attempt to prevent senescence: A mitochondrial approach. *Biochim Biophys. Acta.* **1787**(5), 437-461 (2009).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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