

Product Name	: alpha-Tocopherolquinone
Synonyms	: A-0001; EPI-A-0001; Vitamin E Quinone (D-form)
Cat No.	: M17740
CAS Number	: 7559-04-8
Molecular Formula	: C ₂₉ H ₅₀ O ₃
Formula Weight	: 446.71
Chemical Name	: α-2-(3-Hydroxy-3,7,11,15-tetramethylhexadecyl)-3,5,6-trimethyl-p-benzoquinone
Description	: α-Tocopherolquinone, also known as Vitamin E Quinone (D-form), is a mitochondrial membrane transport protein that has been in phase II clinical trials for the treatment of inherited mitochondrial respiratory chain diseases, however this research has been discontinued. It has also been used for the treatment of Frederick's ataxia and MEILAS syndrome.
Pathway	: Others
Target	: Other Targets
Receptor	: Others
Solubility	: —
SMILES	: <chem>CC1=C(C(=O)C(=C(C1=O)C)CC[C@@](C)(CCC[C@H](C)CCC[C@H](C)CCCC(C)C)O)C</chem>
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:

1. Siegel D, et al. The Reduction of α-Tocopherolquinone by Human NAD(P)H:Quinone Oxidoreductase: The Role of α-Tocopherolhydroquinone as a Cellular Antioxidant[J]. Molecular Pharmacology, 1997, 52(2):300-305.