

Product data sheet



MedKoo Cat#: 529814 Name: Alpha-Lipoic Acid Choline Ester CAS#: 1808266-58-1 (chloride) Chemical Formula: C ₁₃ H ₂₆ ClNO ₂ S ₂ Molecular Weight: 327.93		
Product supplied as:	Powder	
Purity (by HPLC):	≥ 98%	
Shipping conditions	Ambient temperature	
Storage conditions:	Powder: -20°C 3 years; 4°C 2 years. In solvent: -80°C 3 months; -20°C 2 weeks.	

1. Product description:

Alpha-Lipoic Acid Choline Ester, also known as alpha-LACE, EV-06 or UNR844, is a drug candidate potentially for the treatment of presbyopia. Alpha-LACE was designed to permeate biological membranes with the incorporation of the cationic choline head group. While lipoic acid does not permeate the cornea, the choline ester derivative of lipoic acid permeates the cornea, is hydrolyzed by corneal esterases and is transformed into the biologically active lipoic acid. LACE has been formulated into an ophthalmic solution to be applied twice daily as an eye-drop to treat presbyopia.

2. CoA, QC data, SDS, and handling instruction

SDS and handling instruction, CoA with copies of QC data (NMR, HPLC and MS analytical spectra) can be downloaded from the product web page under “QC And Documents” section. Note: copies of analytical spectra may not be available if the product is being supplied by MedKoo partners. Whether the product was made by MedKoo or provided by its partners, the quality is 100% guaranteed.

3. Solubility data

Solvent	Max Conc. mg/mL	Max Conc. mM
DMSO	TBD	TBD

4. Stock solution preparation table:

Concentration / Solvent Volume / Mass	1 mg	5 mg	10 mg
1 mM	3.05 mL	15.25 mL	30.49 mL
5 mM	0.61 mL	3.05 mL	6.10 mL
10 mM	0.30 mL	1.52 mL	3.05 mL
50 mM	0.06 mL	0.30 mL	0.61 mL

5. Molarity Calculator, Reconstitution Calculator, Dilution Calculator

Please refer the product web page under section of “Calculator”

6. Recommended literature which reported protocols for in vitro and in vivo study

In vitro study

TBD

In vivo study

TBD

7. Bioactivity

Biological target:

Alpha-Lipoic Acid Choline Ester is a drug candidate potentially for the treatment of presbyopia and was designed to permeate biological membranes with the incorporation of the cationic choline head group.

In vitro activity

TBD

In vivo activity

TBD

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Note: The information listed here was extracted from literature. MedKoo has not independently retested and confirmed the accuracy of these methods. Customer should use it just for a reference only.