

Product Name: (*R*)-(+)-Etomoxir sodium salt

Catalog No.: 4539

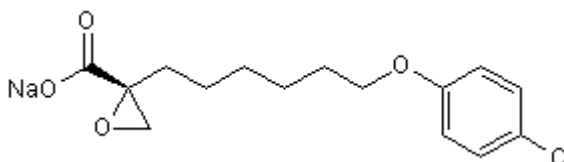
Batch No.: 3

CAS Number: 828934-41-4

IUPAC Name: (*R*)-(+)-2-[6-(4-Chlorophenoxy)hexyl]-oxirane-2-carboxylic acid sodium salt

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₅H₁₈ClNaO₄·H₂O
Batch Molecular Weight: 338.76
Physical Appearance: White solid
Solubility: water to 20 mM
DMSO to 20 mM with gentle warming
ethanol to 20 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.5% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Optical Rotation: [α]_D = +22.4 (Concentration = 1, Solvent = Methanol)
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	53.19	5.95	
Found	53.24	5.66	

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Inhibitor of carnitine palmitoyltransferase I (CPT1); inhibits β -oxidation in mitochondria. Shown to inhibit cardiolipin biosynthesis from exogenous fatty acid in H9c2 cells.

Physical and Chemical Properties:

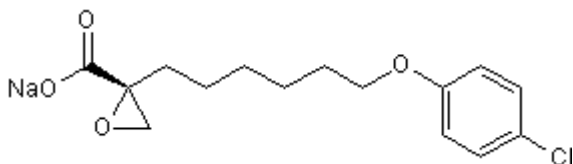
Batch Molecular Formula: C₁₅H₁₈ClNaO₄·H₂O

Batch Molecular Weight: 338.76

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

water to 20 mM

DMSO to 20 mM with gentle warming

ethanol to 20 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Agius et al (1991) Stereospecificity of the inhibition of etomoxir of fatty acid and cholesterol synthesis in isolated rat hepatocytes. *Biochem.Pharmacol.* **42** 1717. PMID: 1930298.

Rupp et al (1992) Modification of subcellular organelles in pressure-overloaded heart by etomoxir, a carnitine palmitoyltransferase I inhibitor. *FASEB J.* **6** 2349. PMID: 1531968.

Xu et al (2003) Etomoxir mediates differential metabolic channeling of fatty acid and glycerol precursors into cardiolipin in H9c2 cells. *J.Lipid Res.* **44** 415. PMID: 12576524.

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