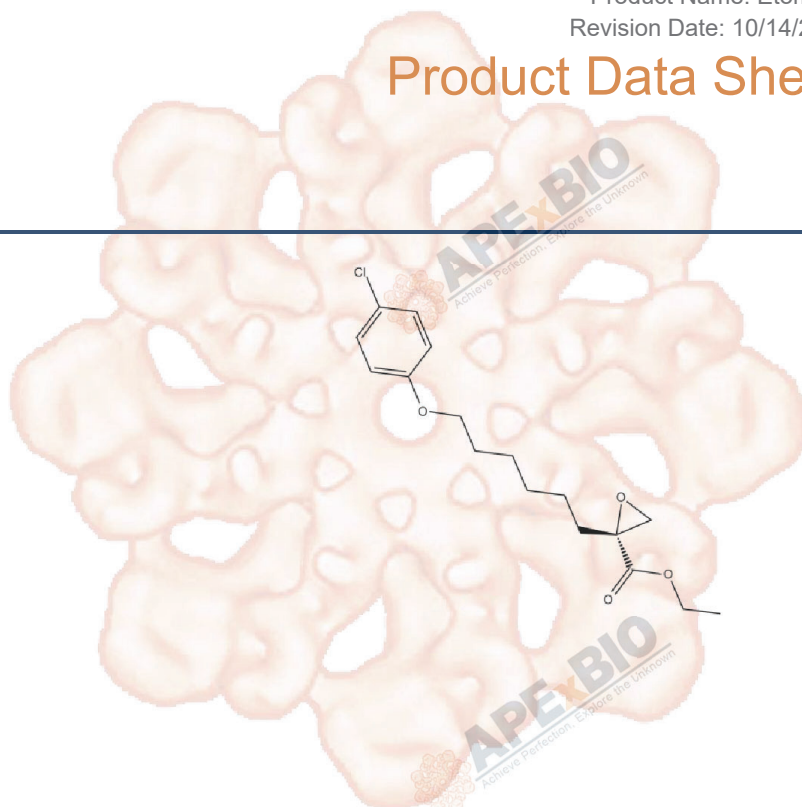


Product Data Sheet

Etomoxir

Cat. No.:	A3404
CAS No.:	124083-20-1
Formula:	C ₁₇ H ₂₃ ClO ₄
M.Wt:	326.82
Synonyms:	R-(-)-Etomoxir, Etomoxir
Target:	Metabolism
Pathway:	CPT1
Storage:	Store at -20°C



Solvent & Solubility

≥32.7 mg/mL in DMSO; ≥109.6 mg/mL in EtOH; ≥48.3 mg/mL in H₂O with gentle warming

In Vitro

Preparing Stock Solutions	Solvent	Mass		
		1mg	5mg	10mg
	Concentration			
	1 mM	3.0598 mL	15.2989 mL	30.5979 mL
	5 mM	0.6120 mL	3.0598 mL	6.1196 mL
	10 mM	0.3060 mL	1.5299 mL	3.0598 mL

Please refer to the solubility information to select the appropriate solvent.

Biological Activity

Shortsummary

(CPT)-1 and DGAT activity inhibitor

IC₅₀ & Target

In Vitro

Cell Viability Assay

Cell Line: Rat heart H9c2 myoblastic cells

Preparation method:

This compound is soluble in DMSO. General tips for obtaining a higher concentration: Please warm the tube at 37°C for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Reacting conditions:

1-80 μM; 2 h

	Applications:	In rat heart H9c2 myoblastic cells, Etomoxir concentration-dependently reduced [1-14C]oleic acid incorporation into phosphatidylglycerol (PtdGro) and cardiolipin (CL). In contrast, etomoxir increased [1,3-3H]glycerol incorporation into CL.
In Vivo	Animal experiment	
	Animal models:	Experimental autoimmune encephalomyelitis (EAE) mice model
	Dosage form:	15 mg/kg i.p.; days 8 and 15
	Applications:	In experimental autoimmune encephalomyelitis (EAE) mice, Etomoxir reduced disease severity and the inflammatory response. Etomoxir-treated mice displayed a reduced immune cell infiltration in the CNS with few macrophages, activated microglia, or T cells present. Etomoxir also reduced inflammation and demyelination in the CNS.
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may slightly differ with the theoretical value. This is caused by an experimental system error and it is normal.

References

- [1]. Xu FY1, Taylor WA, Hurd JA, et al. Etomoxir mediates differential metabolic channeling of fatty acid and glycerol precursors into cardiolipin in H9c2 cells. J Lipid Res. 2003 Feb;44(2):415-23. Epub 2002 Nov 4.
- [2] Shriver LP1, Manchester M. Inhibition of fatty acid metabolism ameliorates disease activity in an animal model of multiple sclerosis. Sci Rep. 2011;1:79.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

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