

Catalog	Unit
TBI4731-5MG	5 mg
TBI4731-25MG	25 mg

### Product Details

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

**Molecular Formula:** C<sub>15</sub>H<sub>18</sub>ClO<sub>4</sub>·Na

**Formula Weight:** 320.74

**CAS Number:** 828934-41-4

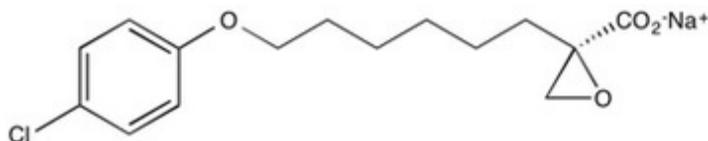
**Purity:** >98%

**Formulation:** powder

**Solubility:** Soluble in DMSO (up to 5 mg/ml with warming)

**Storage:** -20°C

**Stability:** ≥ 1 year.



### Applications

Carnitine palmitoyltransferase Inhibitor

### Functions

Etomoxir (828934-41-4) is an irreversible inhibitor of mitochondrial carnitine palmitoyl transferase 1 (CPT1). It is widely used to study fatty acid oxidation. Etomoxir has been investigated as a therapeutic agent for heart disease, diabetes, and cancer. Use of etomoxir in concentrations greater than 5 μM induces acute production of ROS with associated evidence of severe oxidative stress in proliferating T cells indicating a loss of specificity for CPT1 at these concentrations. 200 μM etomoxir inhibited complex I of the electron transport chain.

### Application Procedures

First dissolved in DMSO (up to 5 mg/ml with warming), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 1 month.

**For research use only.**