

Chemical Properties

Physical Appearance : A solid

Storage : Store at -20°C

M.Wt : 320.74

Cas No. : 828934-41-4

Formula : C₁₅H₁₈ClNaO₄

Solubility : insoluble in H₂O; insoluble in EtOH; ≥12 mg/mL in DMSO

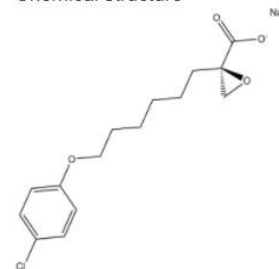
Chemical Name : sodium (R)-2-(6-(4-chlorophenoxy)hexyl)oxirane-2-carboxylate

Canonical SMILES : ClC1=CC=C(C=C1)OCCCCC[C@@]2(C([O-])=O)OC2.[Na+]

Shipping : Condition Small Molecules with Blue Ice, Modified Nucleotides with Dry Ice.

General tips : We do not recommend long-term storage for the solution, please use it up soon.

Chemical structure

**Protocol****Cell experiment****Cell lines**

Splenocytes isolated from C57BL/6 mice immunized with myelin oligodendrocyte glycoprotein (MOG35-55) peptide

Reaction Conditions

100 μM etomoxir for 72 h incubation

Applications

Etomoxir exhibited no effect on MOG35-55-specific T cells cultured in high glucose conditions in terms of pro-inflammatory cytokine production and apoptosis. In contrast, there were a significant reduction in IFN-γ production and a substantial increase in apoptosis in etomoxir-treated cultures stimulated with antigen under low glucose conditions.

Animal experiment**Animal models**

A mouse model of multiple sclerosis

Dosage form

15 mg/kg

Injected intraperitoneally on days 8 and 15 after experimental autoimmune encephalomyelitis (EAE) induction

Applications

Etomoxir-treated mice displayed a reduced immune cell infiltration in the central nervous system with few macrophages, activated microglia, or T cells present. Etomoxir treatment also alleviated inflammation and prevented myelin destruction in spinal cords.

Note

The technical data provided above is for reference only.
