
Product Data Sheet

Product Name: Carisbamate

Cat. No.: GC18505

Chemical Properties

Cas. No. 194085-75-1

Chemical Name (1S)-1-(2-chlorophenyl)-1,2-ethanediol, 2-carbamate

SMILES C1C=C([C@H](O)COC(N)=O)C=CC=C1Formula $C_9H_{10}ClNO_3$ M.Wt 215.6Solubility DMSO : ≥ 100 mg/mL (463.76 mM) Storage Store at -20°C General tips For obtaining a higher solubility , please warm the tube at 37°C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

Background

Carisbamate is an antiepileptic agent., In vivo, administration of carisbamate (10-60 mg/kg) dose-dependently reduces spike and wave discharges in the frontoparietal cortex in a rat model of absence seizures. Carisbamate (10 mg/kg) increases latency to the first running episode in the Wistar audiogenic sensitive rat model of convulsive seizures. It also reduces motor seizure frequency in a rat model of spontaneous seizures in a dose-dependent manner. Carisbamate blocks Nav1.2 channels ($IC_{50} = 68 \mu\text{M}$ for rat channels) and inhibits repetitive firing of action potentials in rat hippocampal neurons in a dose-dependent manner. It also reduces T-type Ca^{2+} currents in HEK cells transfected with human recombinant Cav3.1 channels at a concentration of $300 \mu\text{M}$.

Caution: Product has not been fully validated for medical applications. For research use only.

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