PRODUCT INFORMATION

Carisbamate
Item No. 23514

CAS Registry No.: 194085-75-1
Formal Name: (1S)-1-(2-chlorophenyl)-1,2-ethanediol, 2-carbamate
Synonyms: JNJ-10234094, RWJ 333369
MF: C₉H₁₀ClNO₃
FW: 215.6
Purity: ≥98%
Supplied as: A solid
Storage: 4°C
Stability: ≥2 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Carisbamate is supplied as a solid. A stock solution may be made by dissolving the carisbamate in the solvent of choice. Carisbamate is soluble in the organic solvent DMSO, which should be purged with an inert gas.

Description

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 (IC₅₀ = 68 μM for rat channels) and inhibits repetitive firing of action potentials in rat hippocampal neurons in a dose-dependent manner. It also reduces T-type Ca²⁺ currents in HEK cells transfected with human recombinant Caᵥ3.1 channels at a concentration of 300 μM.

References