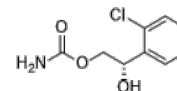


Product Name : Carisbamate
Cat. No. : PC-28239
CAS No. : 194085-75-1
Molecular Formula : C₉H₁₀ClNO₃
Molecular Weight : 215.63
Target : Calcium Channel
Solubility : 10 mM in DMSO



Biological Activity

Carisbamate (RWJ-333369) is a neuromodulator possessing antiseizure and neuroprotective properties, blocks T-type voltage-gated calcium channels.

Carisbamate (RWJ-333369) inhibits kainic acid induced significant elevations in [Ca²⁺]_i and long-lasting neuronal hyperexcitability in CA3 pyramidal neurons.

Carisbamate (RWJ-333369) suppresses spontaneous rhythmic epileptiform activity in hippocampal slices exposed to zero-Mg²⁺ or 4-aminopyridine.

Carisbamate (RWJ-333369) also protects murine hippocampal HT-22 cells against excitotoxic injury with glutamate.

Carisbamate (RWJ-333369) significantly decreases Ca²⁺ flux in human embryonic kidney tsA-201 cells transfected with Cav 3.1 (voltage-dependent T-type Ca²⁺) channels.

Carisbamate (RWJ-333369) inhibits glutamate transmission in the granule cell of the dentate gyrus.

References

Novak GP, et al. Neurotherapeutics. 2007 Jan;4(1):106-9.

Liu Y, et al. Epilepsy Res. 2009 Jan;83(1):66-72.

Deshpande LS, et al. Epilepsia. 2008 Oct;49(10):1795-802.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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