

Etimizol

Chemical Properties

CAS No. :	64-99-3
Formula:	C ₉ H ₁₄ N ₄ O ₂
Molecular Weight:	210.23
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Etimizol (Ethimizole) was shown to relieve amnesia effectively in the origin of which there is the hypoxic component (hypobaric hypoxia, actinomycin D, mechanical injury of the brain). The positive effect of Etimizol on memory is related to its influence on the consolidation stage.
Targets(IC50)	Others,Potassium Channel
In vivo	When applied extracellularly at concentrations of 5-10 mM/L, Etimizol (Ethimizole) specifically alters the behavior of giant neurons in the isolated nervous system of Coretus corneus, notably increasing the duration of action potentials, slowing the development of the descending phase, and reducing the amplitude of trace hyperpolarization. The interval between the administration of Etimizol (3 mg/kg) and the initiation of learning in various experiments ranged from 0.5 to 3 hours. However, regardless of the timing and biological reinforcement method, Etimizol (Ethimizole) did not enhance learning capabilities in rats. Furthermore, following doses of 10 or 1 mg/loop of Etimizol, the average residence time of the compound in the loop was recorded at 20.1 and 7.6 minutes, with standard deviations of 3.1 and 0.8 minutes, respectively.

Solubility Information

Solubility	Ethanol: 33 mg/mL (156.97 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.7567 mL	23.7835 mL	47.567 mL
5 mM	0.9513 mL	4.7567 mL	9.5134 mL
10 mM	0.4757 mL	2.3783 mL	4.7567 mL
50 mM	0.0951 mL	0.4757 mL	0.9513 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Borisova Glu. Effect of etimizol on instrumental learning in rats. Biull Eksp Biol Med. 1985 Jun;99(6):705-6.

Trnovec T, et al. Etimizol absorption from the small intestine in dogs: the dependence on dosage. Biull Eksp Biol Med. 1986 Dec;102(12):729-30.

Vislobokov AI, et al. Elektrophysiological parameters of mollusk neurons under the influence of etimizol. Fiziol Zh SSSR Im I M Sechenova. 1975 Jun;61(6):917-24.

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