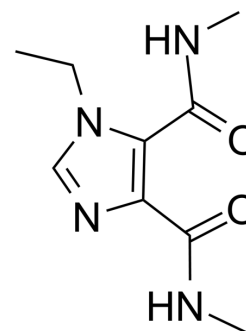


## Etimizol

<b>Cat. No.:</b>	HY-13918		
<b>CAS No.:</b>	64-99-3		
<b>Molecular Formula:</b>	C <sub>9</sub> H <sub>14</sub> N <sub>4</sub> O <sub>2</sub>		
<b>Molecular Weight:</b>	210.23		
<b>Target:</b>	Others		
<b>Pathway:</b>	Others		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



### SOLVENT & SOLUBILITY

#### In Vitro

Ethanol : ≥ 33.33 mg/mL (158.54 mM)  
 \* "≥" means soluble, but saturation unknown.

	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	4.7567 mL	23.7835 mL	47.5670 mL
	5 mM	0.9513 mL	4.7567 mL	9.5134 mL
	10 mM	0.4757 mL	2.3783 mL	4.7567 mL

Please refer to the solubility information to select the appropriate solvent.

#### In Vivo

- Add each solvent one by one: 10% EtOH >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 2.5 mg/mL (11.89 mM); Clear solution
- Add each solvent one by one: 10% EtOH >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.5 mg/mL (11.89 mM); Clear solution
- Add each solvent one by one: 10% EtOH >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (11.89 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Etimizol(Ethymisole; Antiffine; Ethylnorantifein) 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).

#### In Vivo

The time interval between administration of etimizol (3 mg/kg) and the onset of learning varied between 0.5 and 3 h in the several series. Etimizol (Ethymisole) did not facilitate the learning in rats whatever the time of administration and biological modality of reinforcement [1]. After administration of Etimizol (Ethymisole) at doses of 10 or 1 mg/loop mean residence time

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of etimizol in the loop was 20.1 and 7.6 min, respectively, with mean standard deviation being 3.1 and 0.8, respectively [2]. Extracellular application of 5--10 mM/L Etimizol (Ethymisole) exerted a specific effect on the giant neurons of the *Coretus corneus* isolated nervous system: action potential duration increased significantly, speed of development of its descending phase decreased, as well as the trace hyperpolarization amplitude [3].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## REFERENCES

- [1]. Borisova Glu. Effect of etimizol on instrumental learning in rats. *Biull Eksp Biol Med*. 1985 Jun;99(6):705-6.
- [2]. 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.
- [3]. 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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**Caution: Product has not been fully validated for medical applications. For research use only.**

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