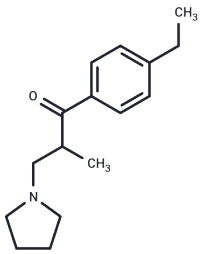
Data Sheet (Cat.No.T68087)

TargetMol

Inaperisone

Chemical Properties



CAS No. : 99323-21-4

Formula: C16H23NO

Molecular Weight: 245.36

Storage: Pure form: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	Inaperisone is a novel centrally acting muscle relaxant that inhibits the voiding reflex. Inaperisone may inhibit the voiding reflex by acting indirectly on GABAB receptors in the brainstem.
Targets(IC50)	Others,GABA Receptor
In vivo	Inaperisone (4 mg/kg i.v. ; normal and decerebrated rats) abolished rhythmic bladder contractions observed contractions.[1] The doses of intracerebroventricularly (i.c.v.) and intrathecally injected inaperisone which abolished the rhythmic bladder contractions were 10 and 100 micrograms, respectively.[1]

Solubility Information

Solubility	DMSO: 50 mg/mL (203.78 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (8.15 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.0756 mL	20.3782 mL	40.7564 mL
5 mM	0.8151 mL	4.0756 mL	8.1513 mL
10 mM	0.4076 mL	2.0378 mL	4.0756 mL
50 mM	0.0815 mL	0.4076 mL	0.8151 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

Morikawa K, et al. Inhibitory effect of inaperisone hydrochloride (inaperisone), a new centrally acting muscle relaxant, on the micturition reflex. Eur J Pharmacol. 1992 ; 213(3):409-415.
Sugaya K, et al. Identification of effective region of the pons in response to inaperisone which facilitates urine storage. Hinyokika Kiyo. 1991 ; 37(12):1639-1644.
Doi T, et al. Effects of TAK-637, a tachykinin receptor antagonist, on lower urinary tract function in the guinea pig. Eur J Pharmacol. 1999 ; 383(3):297-303.

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