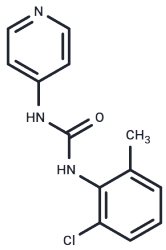
Data Sheet (Cat.No.T12156)

TargetMol

N-(2-Chloro-6-methylphenyl)-N'-4-pyridinylurea

Chemical Properties



CAS No. : 97627-24-2

Formula: C13H12ClN3O

Molecular Weight: 261.71

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	N-(2-Chloro-6-methylphenyl)-N'-4-pyridinylurea is an anticonvulsant agent, treatment of generalized tonic-clonic and partial seizures.
Targets(IC50)	Others
In vivo	N-(2-Chloro-6-methylphenyl)-N'-4-pyridinylurea shows anticonvulsant activity at 30 mg/kg in the initial tests with no signs of ataxia until 300 mg/kg.?The activity seen with 30 mg/kg 37 is still present 4 h postdose.?Compound is effective against seizures induced by maximal electroshock but does not protect mice from clonic seizures produced by the convulsant pentylenetetrazol.?The overall pharmacological profile suggests that Compound would be of therapeutic use in the treatment of generalized tonic-clonic and partial seizures[1].

Solubility Information

Solubility	DMSO: 120 mg/mL (458.52 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: 4 mg/mL (15.28 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	3.821 mL	19.1051 mL	38.2102 mL
5 mM	0.7642 mL	3.821 mL	7.642 mL
10 mM	0.3821 mL	1.9105 mL	3.821 mL
50 mM	0.0764 mL	0.3821 mL	0.7642 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

Pavia MR, et al. N-Phenyl-N'-pyridinylureas as Anticonvulsant Agents. J. Med. Chem. 1990,33, 854-861