Product Data Sheet

CI

MedChemExpress

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

HY-101708		
97627-24-2		
C ₁₃ H ₁₂ ClN ₃ O	1	
261.71		
Others		
Others		
Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month
	HY-101708 97627-24-2 C ₁₃ H ₁₂ ClN ₃ O 261.71 Others Others Powder In solvent	HY-101708 Image: Second s

SOLVENT & SOLUBILITY

In Vitro DMSO : 125 mg/n	DMSO : 125 mg/mL (477.63 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg	
		1 mM	3.8210 mL	19.1051 mL	38.2102 mL	
		5 mM	0.7642 mL	3.8210 mL	7.6420 mL	
		10 mM	0.3821 mL	1.9105 mL	3.8210 mL	
	Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (7.95 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (7.95 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (7.95 mM); Clear solution					

Description	N-[(1R)-4-[(Aminoiminomethyl)amino]-1-[[[(1R)-1-(4-hydroxyphenyl)ethyl]amino]carbonyl]butyl]-α- phenylbenzeneacetamide is an anticonvulsant agent with potential for the treatment of generalized tonic-clonic and partial seizures.				
In Vivo	Compound 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. Compound is selected for clinical trials ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
PROTOCOL	
Animal Administration ^[1]	Mice: Five mice are tested at each of three doses (30,100, and 300 mg/kg) and three times (0.5, 2, and 4 h). The mice are subjected to electrical current delivered through ear clips for 0.2 s (90 mA, 1-ms monophasic pulses at 100 Hz). This curre

ent strength is approximately 4 times that required to produce seizures in 99% of mice and reliably produce seizures in 100% of control mice. Prevention of tonic hind limb extension is taken as an anticonvulsant effect. Behavioral side effects are measured in mice^[1].

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

REFERENCES

PRO

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

Caution: Product has not been fully validated for medical applications. For research use only.

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