DL-Laudanosine

MedChemExpress

Cat. No.:	HY-122489		
CAS No.:	1699-51-0		
Molecular Formula:	C ₂₁ H ₂₇ NO ₄		
Molecular Weight:	357.44		
Target:	Drug Metab	olite	
Pathway:	Metabolic E	Enzyme/P	rotease
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month

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SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (279.77 mM; Need ultrasonic)						
	Mass 1 mg Solvent 1 mg Concentration 2.7977 mL Stock Solutions 1 mM	5 mg	10 mg				
Preparing 1 mM Stock Solutions 5 mM 10 mM		1 mM	2.7977 mL	13.9884 mL	27.9767 mL		
	5 mM	0.5595 mL	2.7977 mL	5.5953 mL			
		10 mM	0.2798 mL	1.3988 mL	2.7977 mL		
	Please refer to the so	ubility information to select the app	propriate solvent.				
In Vivo	1. Add each solvent o Solubility: ≥ 2.5 m	one by one: 10% DMSO >> 40% PEC g/mL (6.99 mM); Clear solution	G300 >> 5% Tween-8	0 >> 45% saline			
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (6.99 mM); Clear solution						
	3. Add each solvent o Solubility: ≥ 2.5 m	one by one: 10% DMSO >> 90% cor g/mL (6.99 mM); Clear solution	n oil				

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Description	DL-Laudanosine, an Atracurium and Cisatracurium metabolite, crosses the blood–brain barrier and may cause excitement and seizure activity ^[1] .
In Vivo	DL-Laudanosine (Laudanosine) appears to be unique in its ability to produce cerebral stimulation in lightly anaesthetized animals and it is reported to cause arousal from anaesthesia in subconvulsive doses ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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Animal Model:	Male CFLP mice weighing 18-25 g, and male Wistar rats weighing 120-150 g $^{\left[2 ight]}$.
Dosage:	10-20 mg/kg.
Administration:	IV.
Result:	Caused convulsions and hind limb extensions.

REFERENCES

[1]. V Fodale, et al. Laudanosine, an Atracurium and Cisatracurium Metabolite. Eur J Anaesthesiol. 2002 Jul;19(7):466-73.

[2]. D J Chapple, et al. Cardiovascular and Neurological Effects of Laudanosine. Studies in Mice and Rats, and in Conscious and Anaesthetized Dogs. Br J Anaesth. 1987 Feb;59(2):218-25.

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

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