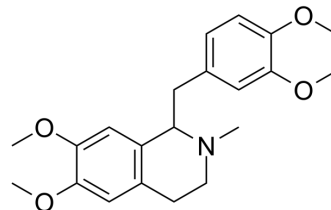


## DL-Laudanosine

<b>Cat. No.:</b>	HY-122489		
<b>CAS No.:</b>	1699-51-0		
<b>Molecular Formula:</b>	C <sub>21</sub> H <sub>27</sub> NO <sub>4</sub>		
<b>Molecular Weight:</b>	357.44		
<b>Target:</b>	Drug Metabolite		
<b>Pathway:</b>	Metabolic Enzyme/Protease		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 100 mg/mL (279.77 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
<b>Preparing Stock Solutions</b>	<b>1 mM</b>	2.7977 mL	13.9884 mL	27.9767 mL
	<b>5 mM</b>	0.5595 mL	2.7977 mL	5.5953 mL
	<b>10 mM</b>	0.2798 mL	1.3988 mL	2.7977 mL
Please refer to the solubility information to select the appropriate solvent.				
<b>In Vivo</b>	<ol style="list-style-type: none"> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline Solubility: ≥ 2.5 mg/mL (6.99 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (6.99 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.5 mg/mL (6.99 mM); Clear solution</li> </ol>			

### BIOLOGICAL ACTIVITY

<b>Description</b>	DL-Laudanosine, an Atracurium and Cisatracurium metabolite, crosses the blood–brain barrier and may cause excitement and seizure activity <sup>[1]</sup> .
<b>In Vivo</b>	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 <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Male CFLP mice weighing 18-25 g, and male Wistar rats weighing 120-150 g [2].
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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