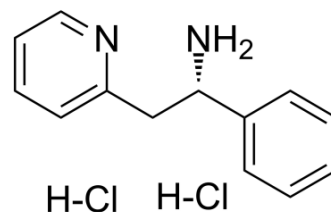


Lanicemine dihydrochloride

Cat. No.:	HY-108235A		
CAS No.:	153322-06-6		
Molecular Formula:	C ₁₃ H ₁₆ Cl ₂ N ₂		
Molecular Weight:	271.19		
Target:	iGluR		
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 240 mg/mL (884.99 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	3.6875 mL	18.4373 mL	36.8745 mL
		5 mM	0.7375 mL	3.6875 mL	7.3749 mL
10 mM		0.3687 mL	1.8437 mL	3.6875 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 6 mg/mL (22.12 mM); Suspended solution; Need ultrasonic Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 6 mg/mL (22.12 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 6 mg/mL (22.12 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	Lanicemine (AZD6765) dihydrochloride is a low-trapping NMDA channel blocker (K _i of 0.56-2.1 μM for NMDA receptor; IC ₅₀ s of 4-7 μM and 6.4 μM in CHO and Xenopus oocyte cells, respectively). Antidepressant effects ^[1] .
IC₅₀ & Target	NMDA receptor ^[1]
In Vivo	Lanicemine produces sustained antidepressant efficacy with minimal psychotomimetic adverse effects ^[1] . Lanicemine (3, 10 or 30 mg/kg; intraperitoneal) not only engages brain circuits involved in the generation of gamma- electroencephalography

(EEG), but also influences these networks independent of the broader systems-level disruptions typical of ketamine^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Male Sprague-Dawley rats ^[1]
Dosage:	3, 10 or 30 mg/kg
Administration:	Intraperitoneal
Result:	Produced pronounced dose-dependent elevations in spontaneous gamma-band EEG, but only gamma changes for Ketamine were tightly coupled to increases in locomotor activity.

REFERENCES

[1]. Sanacora G, et al. Lanicemine: a low-trapping NMDA channel blocker produces sustained antidepressant efficacy with minimal psychotomimetic adverse effects. *Mol Psychiatry*. 2014 Sep;19(9):978-85.

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

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