Inhibitors

(Rac)-Lanicemine

Cat. No.: HY-108235B CAS No.: 61890-25-3 Molecular Formula: $C_{13}H_{14}N_{2}$ Molecular Weight: 198.26 iGluR Target:

Pathway: Membrane Transporter/Ion Channel; Neuronal Signaling

Storage: Pure form -20°C 3 years

In solvent

4°C 2 years -80°C 6 months

-20°C 1 month

Product Data Sheet

SOLVENT & SOLUBILITY

In Vitro

DMSO: 100 mg/mL (504.39 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	5.0439 mL	25.2194 mL	50.4388 mL
	5 mM	1.0088 mL	5.0439 mL	10.0878 mL
	10 mM	0.5044 mL	2.5219 mL	5.0439 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: ≥ 2.5 mg/mL (12.61 mM); Clear solution
- 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (12.61 mM); Clear solution
- 3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (12.61 mM); Clear solution

BIOLOGICAL ACTIVITY

Description	(Rac)-Lanicemine ((Rac)-AZD6765) is the racemate of Lanicemine. Lanicemine (AZD6765) is a low-trapping NMDA char blocker (K_i of 0.56-2.1 μ M for NMDA receptor; IC ₅₀ s of 4-7 μ M and 6.4 μ M in CHO and Xenopus oocyte cells, respectively Antidepressant effects ^[1] .	
IC ₅₀ & Target	NMDA receptor $^{[1]}$	
In Vivo	$Lanice mine\ produces\ sustained\ antide pressant\ efficacy\ with\ minimal\ psychotomimetic\ adverse\ effects \ ^{[1]}. Lanice mine\ (3,10)$	

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 efficacywith minimal psychotomimetic a	dverse 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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