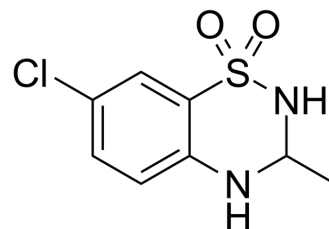


IDRA 21

Cat. No.:	HY-101528	
CAS No.:	22503-72-6	
Molecular Formula:	C ₈ H ₉ ClN ₂ O ₂ S	
Molecular Weight:	232.69	
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 : 250 mg/mL (1074.39 mM; Need ultrasonic)

Concentration	Solvent	Mass	1 mg	5 mg	10 mg
			1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		4.2976 mL	21.4878 mL	42.9756 mL
	5 mM		0.8595 mL	4.2976 mL	8.5951 mL
	10 mM		0.4298 mL	2.1488 mL	4.2976 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.08 mg/mL (8.94 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.08 mg/mL (8.94 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.08 mg/mL (8.94 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

IDRA 21 is a positive and orally active modulator of the AMPA receptor. IDRA 21 facilitates excitatory neurotransmission via GluR1/2 receptors. IDRA 21 has the potential for the research of cognitive/memory disorders, including those associated with aging^[1].

REFERENCES

[1]. Buccafusco JJ, et al. The effects of IDRA 21, a positive modulator of the AMPA receptor, on delayed matching performance by young and aged rhesus monkeys. *Neuropharmacology*. 2004 Jan;46(1):10-22. doi: 10.1016/j.neuropharm.2003.07.002.

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

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