## **IDRA 21**

Cat. No.:	HY-101528						
CAS No.:	22503-72-6						
Molecular Formula:	C <sub>8</sub> H <sub>9</sub> ClN <sub>2</sub> O <sub>2</sub> 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				

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## SOLVENT & SOLUBILITY

In Vitro DMSO : 25	DMSO : 250 mg/mL (1074.39 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg		
		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	1. 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						
	2. 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						
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (8.94 mM); Clear solution						

Product Data Sheet

CI

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N

NH

In Vivo

IDRA 21 (0.15-10 mg/kg, p.o., once every 3 days, 3 weeks) improves delayed matching-to-sample (DMTS) task accuracy in young and aged rhesus monkeys<sup>[1]</sup>.

IDRA 21 (6-24 mg/kg, i.g., once time) increases G41 neuronal injury produced by global ischemia in adult rats<sup>[2]</sup>. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

## 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.

[2]. Yamada KA, et al. The diazoxide derivative IDRA 21 enhances ischemic hippocampal neuron injury. Ann Neurol. 1998 May;43(5):664-9.

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

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