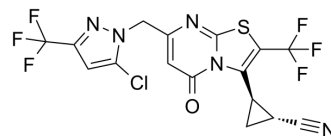


GNE-0723

Cat. No.:	HY-108337		
CAS No.:	1883518-31-7		
Molecular Formula:	C ₁₆ H ₈ ClF ₆ N ₅ OS		
Molecular Weight:	467.78		
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 : 190 mg/mL (406.17 mM; Need ultrasonic)					
		Solvent Concentration	Mass	1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM		2.1378 mL	10.6888 mL	21.3776 mL
		5 mM		0.4276 mL	2.1378 mL	4.2755 mL
10 mM			0.2138 mL	1.0689 mL	2.1378 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: 4.75 mg/mL (10.15 mM); Suspended solution; Need ultrasonic Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 4.75 mg/mL (10.15 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 4.75 mg/mL (10.15 mM); Clear solution 					

BIOLOGICAL ACTIVITY

Description	GNE-0723 is a brain permeable positive allosteric modulator of NMDAR, with an EC ₅₀ of 21 nM for GluN2A, 7.4 and 6.2 μM for GluN2C and GluN2D, respectively ^[1] .
IC₅₀ & Target	EC ₅₀ : 21 nM (GluN2A), 7.4 μM (GluN2C), 6.2 μM (GluN2D) ^[1]
In Vitro	GNE-0723 is a brain permeable positive allosteric modulator of NMDAR, with an EC ₅₀ of 21 nM for GluN2A, 7.4 and 6.2 μM for GluN2C and GluN2D, respectively ^[1] .

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Villemure E, et al. GluN2A-Selective Pyridopyrimidinone Series of NMDAR Positive Allosteric Modulators with an Improved in Vivo Profile. ACS Med Chem Lett. 2016 Oct 31;8(1):84-89.

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

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