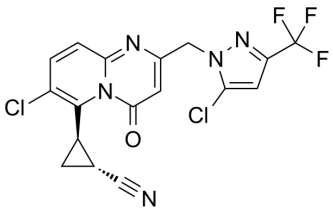
GNE 5729

Cat. No.:	HY-107409
CAS No.:	2026635-66-3
Molecular Formula:	$C_{17}H_{10}Cl_2F_3N_5O$
Molecular Weight:	428.2
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 : 100 mg/mL (233.54 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	2.3354 mL	11.6768 mL	23.3536 mL
5 mM	0.4671 mL	2.3354 mL	4.6707 mL
10 mM	0.2335 mL	1.1677 mL	2.3354 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 (5.84 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (5.84 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

GNE 5729 is a brain permeable positive allosteric modulator of NMDAR, with an EC_{50} of 37 nM for GluN2A, 4.7 and 9.5 μM for GluN2C and GluN2D, respectively.

IC_{50} & Target

NMDA Receptor

In Vitro

GNE 5729 is a brain permeable positive allosteric modulator of NMDAR, with an EC_{50} of 37 nM for GluN2A, 4.7 and 9.5 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.

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