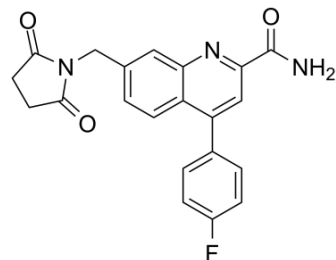


mGluR2 antagonist 1

Cat. No.:	HY-133555		
CAS No.:	1432728-49-8		
Molecular Formula:	C ₂₁ H ₁₆ FN ₃ O ₃		
Molecular Weight:	377.37		
Target:	mGluR		
Pathway:	GPCR/G Protein; 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 (264.99 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
	Preparing Stock Solutions		10 mg	
	1 mM	2.6499 mL	13.2496 mL	26.4992 mL
	5 mM	0.5300 mL	2.6499 mL	5.2998 mL
	10 mM	0.2650 mL	1.3250 mL	2.6499 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: ≥ 2.5 mg/mL (6.62 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (6.62 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (6.62 mM); Clear solution 			

BIOLOGICAL ACTIVITY

Description	mGluR2 antagonist 1 is a highly potent, orally bioavailable and selective class of mGluR2 negative allosteric modulator (IC ₅₀ of 9 nM) with excellent brain permeability ^[1] .
IC₅₀ & Target	mGluR2 9 nM (IC ₅₀)
In Vivo	In vivo, mGluR2 antagonist 1 (Compound 25) reverses the effect of mGluR2 agonist LY379268 in amphetamine-induced

hyperlocomotion and shows good efficacy in the mouse delayed non-match to position assay at 10 mg/kg.
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Youheng Shu, et al. Discovery of 4-arylquinoline-2-carboxamides, Highly Potent and Selective Class of mGluR2 Negative Allosteric Modulators: From HTS to Activity in Animal Models. *Bioorg Med Chem Lett*. 2020 May 1;30(9):127066.

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

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