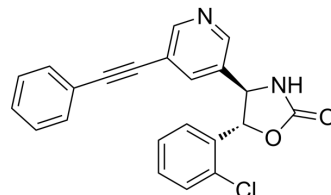


BMS-984923

Cat. No.:	HY-122559		
CAS No.:	1375752-78-5		
Molecular Formula:	C ₂₂ H ₁₅ ClN ₂ O ₂		
Molecular Weight:	374.82		
Target:	mGluR		
Pathway:	GPCR/G Protein; Neuronal Signaling		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 50 mg/mL (133.40 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
			1 mM	2.6679 mL	13.3397 mL	26.6795 mL
			5 mM	0.5336 mL	2.6679 mL	5.3359 mL
			10 mM	0.2668 mL	1.3340 mL	2.6679 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 (6.67 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: 2.5 mg/mL (6.67 mM); Suspended solution; Need ultrasonic					

BIOLOGICAL ACTIVITY

Description	BMS-984923, a potent mGluR5 silent allosteric modulator (SAM), with exquisite binding affinity (K _i = 0.6 nM), exhibits good oral bioavailability and BBB penetration. BMS-984923 potently inhibits the PrPC-mGluR5 interaction and prevents pathological Aβ ₀ signaling without affecting physiological glutamate signaling ^{[1][2]} .	
In Vivo	BMS-984923 (7.5 mg/kg or 15 mg/kg, oral gavage, once) exhibits good oral bioavailability and BBB penetration ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	Animal Model:	C57Bl6J male mice ^[1] .
	Dosage:	7.5 mg/kg or 15 mg/kg (Pharmacokinetic Analysis)

Administration:	Oral gavage, once.
Result:	The plasma concentration exceeded 2 μ M at 10 hr. Brain concentrations were nearly as high as plasma concentrations when measured 3 hr after a 7.5 mg/kg oral dose

REFERENCES

- [1]. Laura T Haas, et al. Silent Allosteric Modulation of mGluR5 Maintains Glutamate Signaling while Rescuing Alzheimer's Mouse Phenotypes. Cell Rep. 2017 Jul 5;20(1):76-88.
- [2]. Hong Huang, et al. Oxazolidinone-based allosteric modulators of mGluR5: Defining molecular switches to create a pharmacological tool box. Bioorg Med Chem Lett. 2016 Sep 1;26(17):4165-9.

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

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA