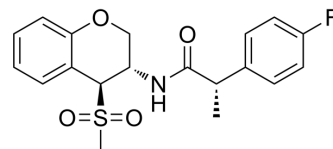


CVN636

Cat. No.:	HY-153615	
CAS No.:	2226732-62-1	
Molecular Formula:	C ₁₉ H ₂₀ FNO ₄ S	
Molecular Weight:	377.43	
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 (264.95 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	2.6495 mL	13.2475 mL	26.4950 mL
5 mM	0.5299 mL	2.6495 mL	5.2990 mL
10 mM	0.2649 mL	1.3247 mL	2.6495 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- 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; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: 2.5 mg/mL (6.62 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

CVN636 is a potent, orally active and selective mGluR7 allosteric agonist with an EC₅₀ value of 7 nM for hu mGluR7. CVN636 has central nervous system (CNS) permeability^[1].

IC₅₀ & Target

hu mGluR7
7 nM (EC₅₀)

In Vivo

CVN636 (0.3-3 mg/kg; p.o.) reduces ethanol self-administration in msP rats^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	msP rat ^[1]
Dosage:	0.3, 1, and 3 mg/kg
Administration:	oral administration
Result:	Reduced alcohol self-administration in a dose-dependent.

REFERENCES

- [1]. Ayscough AP, et, al. Discovery of CVN636: A Highly Potent, Selective, and CNS Penetrant mGluR7 Allosteric Agonist. ACS Med Chem Lett. 2023 Mar 2;14(4):442-449.
- [2]. Dickson L, et, al. Discovery of CVN636: A Highly Potent, Selective, and CNS Penetrant mGluR7 Allosteric Agonist. ACS Med Chem Lett. 2023 Mar 2;14(4):442-449.

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