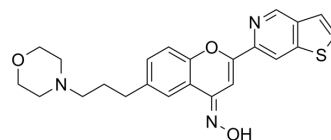


Foliglurax

Cat. No.:	HY-108703
CAS No.:	1883329-51-8
Molecular Formula:	C ₂₃ H ₂₃ N ₃ O ₃ S
Molecular Weight:	421.51
Target:	mGluR
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



SOLVENT & SOLUBILITY

In Vitro	DMSO : 5.2 mg/mL (12.34 mM; Need ultrasonic and warming)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	2.3724 mL	11.8621 mL	23.7242 mL
				5 mM	0.4745 mL	2.3724 mL	4.7448 mL
				10 mM	0.2372 mL	1.1862 mL	2.3724 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: ≥ 0.52 mg/mL (1.23 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 0.52 mg/mL (1.23 mM); Clear solution						

BIOLOGICAL ACTIVITY

Description	Foliglurax (PXT002331) is a highly selective and potent, brain-penetrant metabotropic glutamate receptor 4 positive allosteric modulator (mGluR4 PAM) with an EC ₅₀ of 79 nM ^[1] . Antiparkinsonian effect ^[1] .
IC ₅₀ & Target	mGlu ₄ 79 nM (EC ₅₀)
In Vitro	Foliglurax, a highly selective and potent mGlu ₄ receptor PAM with a marked brain-penetrance feature, might revolutionize the field of mGlu ₄ receptor drug targeting in CNS disorders ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Charvin D, et al. Discovery, Structure-Activity Relationship, and Antiparkinsonian Effect of a Potent and Brain-Penetrant Chemical Series of Positive Allosteric Modulators of Metabotropic Glutamate Receptor 4. *J Med Chem.* 2017 Oct 26;60(20):8515-8537.
- [2]. Volpi C, et al. Opportunities and challenges in drug discovery targeting metabotropic glutamate receptor 4. *Expert Opin Drug Discov.* 2018 May;13(5):411-423.
-

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