Foliglurax monohydrochloride

Cat. No.: HY-108703A

CAS No.: 2133294-96-7

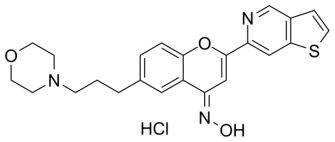
Molecular Formula: $C_{23}H_{24}ClN_3O_3S$

Molecular Weight: 457.97

Target: mGluR

Pathway: GPCR/G Protein; Neuronal Signaling

Storage: 4°C, sealed storage, away from moisture
* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

H_2O : 25 mg/mL (54.59 mM; Need ultrasonic)
DMSO : 5 mg/mL (10.92 mM; Need ultrasonic)

Preparing Stock Solutions

Concentration \ Solvent \ Mass	1 mg	5 mg	10 mg
1 mM	2.1835 mL	10.9177 mL	21.8355 mL
5 mM	0.4367 mL	2.1835 mL	4.3671 mL
10 mM	0.2184 mL	1.0918 mL	2.1835 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: ≥ 0.5 mg/mL (1.09 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 0.5 mg/mL (1.09 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 0.5 mg/mL (1.09 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Foliglurax monohydrochloride (PXT002331 monohydrochloride) 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 (EC50)

In Vitro

Foliglurax, a highly selective and potent mGlu4 receptor PAM with a marked brain-penetrance feature, might revolutionize

the field of mGlu4 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.

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