(E/Z)-Sivopixant

Cat. No.: HY-137451A

CAS No.: 1640808-39-4

Molecular Formula: $C_{25}H_{22}ClN_5O_5$

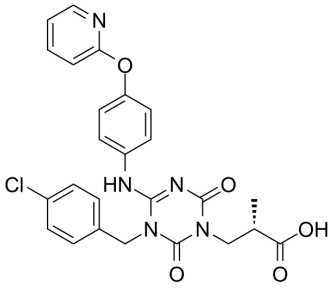
Molecular Weight: 507.93

Target: P2X Receptor

Pathway: Membrane Transporter/Ion Channel

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 (196.88 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	1.9688 mL	9.8439 mL	19.6878 mL
	5 mM	0.3938 mL	1.9688 mL	3.9376 mL
	10 mM	0.1969 mL	0.9844 mL	1.9688 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 (4.92 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (4.92 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (4.92 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

(E/Z)-Sivopixant ((E/Z)-S-600918) is a potent P2X3 receptor antagonist with an IC_{50} of 4 nM. (E/Z)-Sivopixant can be used for respiratory diseases research[1].

IC_{50} & Target

IC50: 4 nM (P2X3 receptor)[1]

In Vitro

ATP receptors are roughly classified into an ion channel type P2X family and a G protein coupled type P2Y family. Seven types of subtypes have been reported in the P2X receptor family, and function as non-selective cation channels by forming

homotrimers or heterotrimers with other P2X subtypes. Furthermore, P2X3 that the receptor is expressed in neuroepithelial bodies (NEB) of the lungs, and ATP-induced cough, etc., P2X3 receptors. It has been suggested that it is involved in information transmission in the respiratory organs[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Kai, Hiroyuki, et al. Amino-triazine derivatives and pharmaceutical composition containing said derivatives. WO2014200078A1.

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