VPC 23019

Cat. No.: HY-108490

CAS No.: 449173-19-7

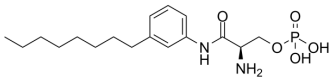
Molecular Formula: $C_{17}H_{29}N_2O_5P$

Molecular Weight: 372.4

Target: LPL Receptor

Pathway: GPCR/G Protein

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

DMSO : 125 mg/mL (335.66 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.6853 mL	13.4264 mL	26.8528 mL
	5 mM	0.5371 mL	2.6853 mL	5.3706 mL
	10 mM	0.2685 mL	1.3426 mL	2.6853 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: 2.08 mg/mL (5.59 mM); Suspended solution; Need ultrasonic
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.08 mg/mL (5.59 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (5.59 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

VPC 23019, an aryl amide-containing Sphingosine 1-phosphate (S1P) analog, is a competitive antagonist at the S1P1 and S1P3 receptors (pK_i= 7.86 and 5.93, respectively) and an agonist at the S1P4 and S1P5 receptors (pEC_{50}= 6.58 and 7.07, respectively)[1].

IC_{50} & Target

pKi: 7.86 (S1P1); 5.93 (S1P3). pEC50: 6.58 (S1P1); 7.07 (S1P3)[1]

REFERENCES

[1]. Davis MD, et al. Sphingosine 1-phosphate analogs as receptor antagonists. J Biol Chem. 2005 Mar 18;280(11):9833-41. Epub 2004 Dec 8.

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