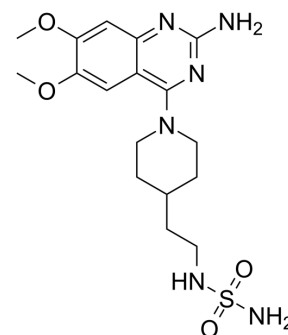


Enpp-1-IN-5

Cat. No.:	HY-145063		
CAS No.:	2230916-95-5		
Molecular Formula:	C ₁₇ H ₂₆ N ₆ O ₄ S		
Molecular Weight:	410.49		
Target:	Phosphodiesterase (PDE)		
Pathway:	Metabolic Enzyme/Protease		
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 (243.61 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.4361 mL	12.1806 mL	24.3611 mL
	5 mM	0.4872 mL	2.4361 mL	4.8722 mL
	10 mM	0.2436 mL	1.2181 mL	2.4361 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 (6.09 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: 2.5 mg/mL (6.09 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: 2.5 mg/mL (6.09 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

Enpp-1-IN-5 is a potent inhibitor of ectonucleotide pyrophosphatase-phosphodiesterase 1 (enpp-1). The ENPP 1 has broad specificity and can cleave a variety of substrates, including phosphodiester bonds of nucleotides and nucleotide sugars and pyrophosphate bonds nucleotides and nucleotide sugars. Enpp-1-IN-5 has the potential for the research of cancer and infectious diseases (extracted from patent WO2019046778A1/WO2021203772A1, compound 1)^{[1][2]}.

REFERENCES

[1]. William Michael Gallatin, et al. Ectonucleotide pyrophosphatase-phosphodiesterase 1 (enpp-1) inhibitors and uses thereof. Patent WO2019046778A1.

[2]. Bang Fu, et al. Ectonucleotide pyrophosphatase-phosphodiesterase 1 inhibitors, compositions and uses thereof. Patent WO2021203772A1.

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