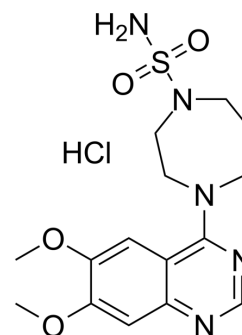


Enpp-1-IN-14

Cat. No.:	HY-147389		
CAS No.:	2687222-59-7		
Molecular Formula:	C ₁₅ H ₂₂ ClN ₅ O ₄ S		
Molecular Weight:	403.88		
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 : 9.62 mg/mL (23.82 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	2.4760 mL	12.3799 mL	24.7598 mL
5 mM	0.4952 mL	2.4760 mL	4.9520 mL
10 mM	0.2476 mL	1.2380 mL	2.4760 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

ENPP1-IN-2 is a potent Ectonucleotide Pyrophosphatase/Phosphodiesterase-1 (ENPP1) inhibitor with an IC₅₀ value of 32.38 nM for recombinant human ENPP-1. ENPP1-IN-2 has anti-tumor activity^[1].

IC₅₀ & Target

IC₅₀: 32.38 nM (recombinant human ENPP-1)^[1]

In Vivo

ENPP1-IN-2 (compound 015) (50 mg/kg; IP; BID, for 31 days) significantly inhibits tumor growth^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Female C57BL/6 mice (4-6 weeks; implanted subcutaneously with 2×10 ⁵ MC38 cells) ^[1]
Dosage:	50 mg/kg
Administration:	IP; BID, for 31 days (given a single 10 Gy exposure of focal radiation to the tumor site)
Result:	Significantly inhibited tumor growth.

REFERENCES

[1]. Srinivas Rao Kasibhatla, et al. Inhibitors of ectonucleotide pyrophosphatase/phosphodiesterase 1 (enpp1) and methods of use thereof. WO2021158829A1.

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