Enpp-1-IN-2

Cat. No.: HY-139362

CAS No.: 2378640-92-5

Molecular Formula: $C_{15}H_{18}N_6$

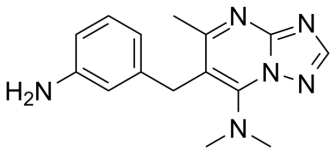
Molecular Weight: 282.34

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 (354.18 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	3.5418 mL	17.7091 mL	35.4183 mL
	5 mM	0.7084 mL	3.5418 mL	7.0837 mL
	10 mM	0.3542 mL	1.7709 mL	3.5418 mL

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

BIOLOGICAL ACTIVITY

Description

Enpp-1-IN-2 (Compound C) is a potent ENPP1 (ectonucleotide pyrophosphatase/phosphodiesterase 1) inhibitor with IC_{50} values of 0.26, 0.48 and 2.0 μM evaluated by means of TG-mAMP, pNP-TMP, and ATP assays, respectively. TG (Tokyo Green)-mAMP: a newly synthesized sensitive ENPP1 fluorescence probe[1].

IC_{50} & Target

IC_{50}: 0.26 μM (TG-mAMP assay), 0.48 μM (pNP-TMP assay), 2.0 μM (ATP assay)[1]

REFERENCES

[1]. Kawaguchi M, et al. Development of an ENPP1 Fluorescence Probe for Inhibitor Screening, Cellular Imaging, and Prognostic Assessment of Malignant Breast Cancer. J Med Chem. 2019 Oct 24;62(20):9254-9269.

Caution: Product has not been fully validated for medical applications. For research use only.

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