Autotaxin-IN-3

Cat. No.: HY-135053

CAS No.: 2156655-68-2

Molecular Formula: $C_{22}H_{21}N_9O_2$

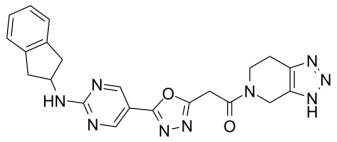
Molecular Weight: 443.46

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 : 250 mg/mL (563.75 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.2550 mL	11.2750 mL	22.5499 mL
	5 mM	0.4510 mL	2.2550 mL	4.5100 mL
	10 mM	0.2255 mL	1.1275 mL	2.2550 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 (4.69 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.08 mg/mL (4.69 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (4.69 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Autotaxin-IN-3 is a Autotaxin(ATX) inhibitor with an IC_{50} of 2.4 nM, compound 33, sourced from patent WO2018212534A1[1].

IC_{50} & Target

Autotaxin
2.4 nM (IC_{50})

In Vitro

Autotaxin is an enzyme which is responsible for the increase in lysophosphatidic acid in ascites and plasma, and it is a secretory enzyme important for converting lysophosphatidylchloine (LPC) into lysophosphatidic acid (LPA) as a bioactive

signaling molecule[1].

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

REFERENCES

[1]. LEE, Dae Yon, et al. NOVEL COMPOUNDS AS AUTOTAXIN INHIBITORS AND PHARMACEUTICAL COMPOSITIONS COMPRISING THE SAME. Patent O2018212534A1

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