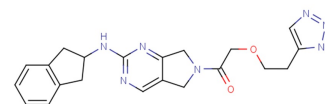


Autotaxin-IN-1

Chemical Properties

CAS No.:	1619971-30-0
Formula:	C ₂₁ H ₂₃ N ₇ O ₂
Molecular Weight:	405.45
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	Autotaxin-IN-1 is a potent autotaxin inhibitor, which has favorable potency (IC ₅₀ =2.2 nM), PK properties, and a robust PK/PD relationship and it is used in treatment of osteoarthritis pain[1].
Targets(IC ₅₀)	Autotaxin: 2 nM
In vivo	Autotaxin-IN-1 (p.o.; 10 mg/kg) has C _{max} of 660 nM and AUC of 3440 nM•h[1]. Autotaxin-IN-1 (i.v.; 1.0mg/kg) has T _{1/2} of 1.14 hours[1].

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.466 mL	12.332 mL	24.664 mL
5 mM	0.493 mL	2.466 mL	4.933 mL
10 mM	0.247 mL	1.233 mL	2.466 mL
50 mM	0.049 mL	0.247 mL	0.493 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Jones SB, et al. Novel Autotaxin Inhibitors for the Treatment of Osteoarthritis Pain: Lead Optimization via Structure-Based Drug Design. ACS Med Chem Lett. 2016 Aug 2;7(9):857-61.

Inhibitors · Natural Compounds · Compound Libraries

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