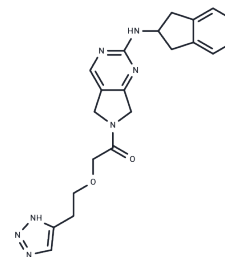


## Autotaxin-IN-1

## Chemical Properties

CAS No. :	1619971-30-0
Formula:	C <sub>21</sub> H <sub>23</sub> N <sub>7</sub> O <sub>2</sub>
Molecular Weight:	405.45
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Autotaxin-IN-1 is a potent autotaxin inhibitor used in the treatment of osteoarthritis pain. It exhibits favorable potency (IC <sub>50</sub> =2.2 nM), pharmacokinetic (PK) properties, and a robust PK/pharmacodynamic (PD) relationship[1].
Targets(IC <sub>50</sub> )	PDE
In vivo	Autotaxin-IN-1 (p.o.; 10 mg/kg) has C <sub>max</sub> of 660 nM and AUC of 3440 nM·h[1]. Autotaxin-IN-1 (i.v.; 1.0mg/kg) has T <sub>1/2</sub> of 1.14 hours[1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4664 mL	12.332 mL	24.664 mL
5 mM	0.4933 mL	2.4664 mL	4.9328 mL
10 mM	0.2466 mL	1.2332 mL	2.4664 mL
50 mM	0.0493 mL	0.2466 mL	0.4933 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

## Reference

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.

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