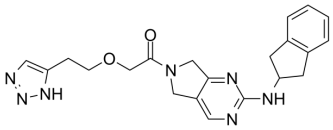
Autotaxin-IN-1

Cat. No.:	HY-123637
CAS No.:	1619971-30-0
Molecular Formula:	$C_{21}H_{23}N_7O_2$
Molecular Weight:	405.45
Target:	Phosphodiesterase (PDE)
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

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. Autotaxin-IN-1 is used in treatment of osteoarthritis pain[1].
IC_{50} & Target	Autotaxin 2 nM (IC_{50})
In Vivo	Autotaxin-IN-1 (i.v.; 1.0mg/kg) has $T_{1/2}$ of 1.14 hours[1]. Autotaxin-IN-1 (p.o.; 10 mg/kg) has C_{max} of 660 nM and AUC of 3440 nM•h[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Normal rat[1]
Dosage:	1.0 mg/kg, 10 mg/kg (Pharmacokinetic Study)
Administration:	I.v. (1.0 mg/kg); p.o. (10 mg/kg)
Result:	Has $T_{1/2}$ of 1.14 hours (i.v.; 1.0mg/kg). Has C_{max} of 660 nM and AUC of 3440 nM•h (p.o.; 10 mg/kg).

REFERENCES

[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.

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

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