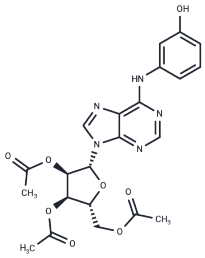
Data Sheet (Cat.No.T9010)

TargetMol

IMM-H007

Chemical Properties



CAS No. : 1221412-23-2

Formula: C22H23N5O8

Molecular Weight: 485.45

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	IMM-H007 is a novel lipid-lowering agent, increasing abca1 protein expression
Targets(IC50)	NF-κB,HIF/HIF Prolyl-Hydroxylase,AMPK,DNA/RNA Synthesis,JNK,TGF-beta/Smad
In vitro	IMM-H007 (H007) significantly inhibits monocyte adhesion to endothelial cells and its transendothelial migration.?Mechanistically, H007 markedly represses TNFα-induced IκBα degradation and NF-κB nuclear translocation, therefore leading to NF-κB-mediated inflammatory suppression.?Moreover, another inflammatory signaling JNK/c-Jun, which is always co-activated with NF-κB in response to pro-inflammatory stimuli, is also found to be restrained by H007 through reducing its phosphorylation status.?H007 negatively regulates endothelium inflammation through inactivating NF-κB and JNK/AP1 signaling.

Solubility Information

Solubility	DMSO: 22.5 mg/mL (46.35 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0599 mL	10.2997 mL	20.5994 mL
5 mM	0.412 mL	2.0599 mL	4.1199 mL
10 mM	0.206 mL	1.030 mL	2.0599 mL
50 mM	0.0412 mL	0.206 mL	0.412 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

Jy C , MD Hong, Hyl F , et al. IMM-H007, a novel small molecule inhibitor for atherosclerosis, represses endothelium inflammation by regulating the activity of NF-κB and JNK/AP1 signaling[J]. Toxicology and Applied Pharmacology, 2019, 381:114732-.

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