

ASM-IN-1

Chemical Properties

CAS No. :	2913151-46-7
Formula:	C16H12BrN3O4
Molecular Weight:	390.19
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	ASM-IN-1 is a potent, orally active inhibitor of acid sphingomyelinase (ASM) with an IC50 of 1.5 μ M, demonstrating antiatherosclerotic and anti-inflammatory activity. It effectively reduces lipid plaques in the aortic arch and aorta, along with decreasing plasma ceramide concentrations and oxidized LDL (Ox-LDL) levels [1].
Targets(IC50)	Phospholipase
In vitro	ASM-IN-1 (compound 4i) does not affect cell growth in HUVEC [1]. At concentrations of 0, 1, and 5 μ M, ASM-IN-1 reduces IL-6 and TNF- α expression in HUVEC in a dose-dependent manner upon LPS stimulation [1]. Moreover, at 5 μ M, ASM-IN-1 decreases MCP-1 mRNA expression and normalizes IL-6 mRNA levels in the presence of Ox-LDL [1].
In vivo	ASM-IN-1, administered via intravenous injection at 1 mg/kg and orally at 10 mg/kg, demonstrated favorable pharmacokinetic properties in ICR mice with an oral bioavailability of 35.42% [1]. When given intraperitoneally at doses of 6, 12, and 40 mg/kg twice daily for a duration of 8 weeks, ASM-IN-1 exhibited anti-atherosclerotic activity by inhibiting ASM activity in mice [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5629 mL	12.8143 mL	25.6285 mL
5 mM	0.5126 mL	2.5629 mL	5.1257 mL
10 mM	0.2563 mL	1.2814 mL	2.5629 mL
50 mM	0.0513 mL	0.2563 mL	0.5126 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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