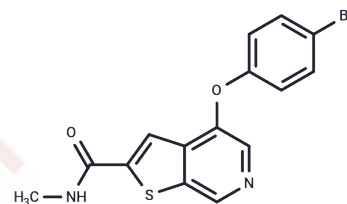


ICAM-1-IN-1

Chemical Properties

CAS No. :	251994-14-6
Formula:	C ₁₅ H ₁₁ BrN ₂ O ₂ S
Molecular Weight:	363.23
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	ICAM-1-IN-1 is a potent and selective inhibitor of E-selectin (IC ₅₀ = 7 nM) and ICAM-1 (IC ₅₀ = 5 nM).
Targets(IC ₅₀)	Integrin
In vivo	In both a rat model of rheumatoid arthritis and a mouse model of asthma, ICAM-1-IN-1 demonstrates significant therapeutic effects. Notably, after nine days of treatment with ICAM-1-IN-1, there is a reduction in the swelling of inflamed ankles in the rat arthritis model; however, it does not exhibit efficacy during the acute phase of the condition. A 21-day regimen of ICAM-1-IN-1 at a dosage of 25 mg/kg markedly decreases ankle inflammation in arthritic rats. Additionally, this treatment leads to a notable decrease in eosinophil counts and levels of serum-soluble ICAM-1 (sICAM-1).

Solubility Information

Solubility	DMSO: 50 mg/mL (137.65 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7531 mL	13.7654 mL	27.5308 mL
5 mM	0.5506 mL	2.7531 mL	5.5062 mL
10 mM	0.2753 mL	1.3765 mL	2.7531 mL
50 mM	0.0551 mL	0.2753 mL	0.5506 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.

Reference

Zhu GD, et al. Selective inhibition of ICAM-1 and E-selectin expression in human endothelial cells. 2. Arylmodifications of 4-(aryloxy)thieno[2,3-c]pyridines with fine-tuning at C-2 carbamides. J Med Chem. 2001 Oct 11;44(21):3469-87.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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