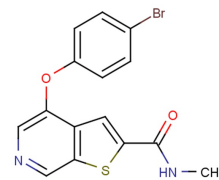


ICAM-1-IN-1

Chemical Properties

CAS No.:	251994-14-6
Formula:	C ₁₅ H ₁₁ BrN ₂ O ₂ S
Molecular Weight:	363.23
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	ICAM-1-IN-1 is a potent and selective E-selectin and ICAM-1 inhibitor (IC ₅₀ of 7 and 5 nM, respectively).
Targets(IC ₅₀)	E-selectin: 7 nM ICAM-1: 5 nM
In vivo	In a rat rheumatoid arthritis model and in a mouse asthma model, ICAM-1-IN-1 shows significant efficacy. The width of inflamed ankles after the ninth day following treatment reduced by ICAM-1-IN-1, but shows no efficacy in the acute phase. Treatment with ICAM-1-IN-1 (25 mg/kg) for 21 days significantly reduces the ankle inflammation of the arthritis rats. Significant reduction of eosinophils and serum-soluble ICAM-1 (sICAM-1) is observed.

Solubility Information

Solubility	DMSO: 135 mg/mL (371.67 mM) (< 1 mg/mL refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.753 mL	13.765 mL	27.531 mL
5 mM	0.551 mL	2.753 mL	5.506 mL
10 mM	0.275 mL	1.377 mL	2.753 mL
50 mM	0.055 mL	0.275 mL	0.551 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. 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.

Inhibitors · Natural Compounds · Compound Libraries

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