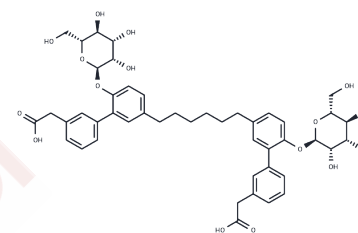


Bimosiamose

Chemical Properties

CAS No. :	187269-40-5
Formula:	C ₄₆ H ₅₄ O ₁₆
Molecular Weight:	862.91
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	Bimosiamose has anti-inflammatory effects[1]. Bimosiamose (TBC-1269) is a nonoligosaccharide pan-selectin antagonist with IC ₅₀ s of 88 μM, 20 μM, and 86 μM for E-selectin, L-selectin, and P-selectin respectively.
Targets(IC ₅₀)	Others,Integrin
In vitro	Bimosiamose (TBC-1269) effectively inhibits neutrophil recruitment to inflammation sites by obstructing the initial rolling phase of recruitment, without exhibiting cytotoxic effects on neutrophils.
In vivo	Bimosiamose (TBC-1269; 25 mg/kg; intravenous injection; Sprague-Dawley rats) treatment significantly increases survival, ameliorates neutrophil migration by 81%, and improves histologic damage scores[1]. The best overall survival rate of 70% is observed when administered 15 minutes before reperfusion, with a marked decrease in liver enzyme levels at 6 hours after reperfusion.

Solubility Information

Solubility	0.1 M NaOH: 25 mg/mL (28.97 mM),when pH is adjusted to 10 with NaOH. Sonication is recommended. DMSO: 125 mg/mL (144.86 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 3.3 mg/mL (3.82 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.1589 mL	5.7943 mL	11.5887 mL
5 mM	0.2318 mL	1.1589 mL	2.3177 mL
10 mM	0.1159 mL	0.5794 mL	1.1589 mL
50 mM	0.0232 mL	0.1159 mL	0.2318 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

Palma-Vargas JM, et al. Small-molecule selectin inhibitor protects against liver inflammatory response after ischemia and reperfusion. J Am Coll Surg. 1997 Oct;185(4):365-72.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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