

Integrin modulator 1

Chemical Properties

CAS No. : 2023788-32-9

Formula: C₁₃H₁₄N₂O₄

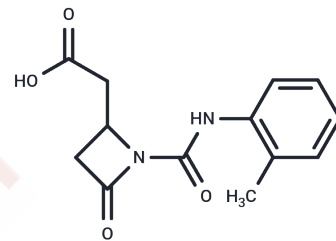
Molecular Weight: 262.26

Keep away from moisture, Keep away from direct sunlight

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	Integrin modulator 1 is a potent and selective $\alpha 4\beta 1$ integrin agonist with an IC ₅₀ value of 9.8 nM for RGD-binding $\alpha 4\beta 1$. Integrin modulator 1 enhances cell adhesion mediated by $\alpha 4\beta 1$ integrin with an EC ₅₀ of 12.9 nM, highlighting its utility in studying integrin-dependent adhesion processes.
Targets(IC50)	Others, Integrin
In vitro	Integrin modulator 1 (2-10 μ g/mL; 30 min) significantly increases Jurkat E6.1 cell adhesion[1]. Integrin modulator 1 (1-100 nM; 1 h) strongly and significantly increases ERK1/2 phosphorylation in Jurkat E6.1 cells. Integrin modulator 1 (1 nM-10 μ M; 30 min) significantly increases the binding of HUTS-21 antibody to Jurkat E6.1 cells in a concentration-dependent manner.[1]

Solubility Information

Solubility	DMSO: 80 mg/mL (305.04 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: 5 mg/mL (19.07 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	3.813 mL	19.065 mL	38.1301 mL
5 mM	0.7626 mL	3.813 mL	7.626 mL
10 mM	0.3813 mL	1.9065 mL	3.813 mL
50 mM	0.0763 mL	0.3813 mL	0.7626 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

Baiula M, et, al. New β -Lactam Derivatives Modulate Cell Adhesion and Signaling Mediated by RGD-Binding and Leukocyte Integrins. J Med Chem. 2016 Nov 10;59(21):9721-9742.

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