

$\alpha\beta$ 1 integrin-IN-1

Chemical Properties

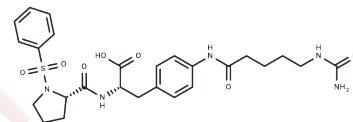
CAS No. : 1689540-62-2

Formula: C₂₆H₃₄N₆O₆S

Molecular Weight: 558.65

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	$\alpha\beta$ 1 integrin-IN-1 is a potent and selective inhibitor of $\alpha\beta$ 1 integrin (IC ₅₀ of 0.63 nM) with antifibrotic effects.
Targets(IC ₅₀)	Integrin
In vitro	In a murine model of liver and lung fibrosis, the administration of $\alpha\beta$ 1 integrin-IN-1 leads to a significant reduction in the expression of fibrotic markers.[1]

Solubility Information

Solubility	DMSO: 250 mg/mL (447.51 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 (8.95 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	1.790 mL	8.9501 mL	17.9003 mL
5 mM	0.358 mL	1.790 mL	3.5801 mL
10 mM	0.179 mL	0.895 mL	1.790 mL
50 mM	0.0358 mL	0.179 mL	0.358 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

Reed NI, et al. Exploring N-Arylsulfonyl-L-proline Scaffold as a Platform for Potent and Selective α v β 1 Integrin Inhibitors. ACS Med Chem Lett. 2016 ; 7(10):902-907.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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