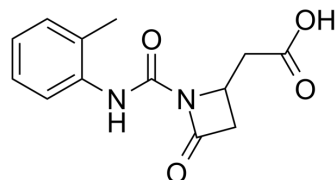


Integrin modulator 1

Cat. No.:	HY-134130
CAS No.:	2023788-32-9
Molecular Formula:	C ₁₃ H ₁₄ N ₂ O ₄
Molecular Weight:	262.26
Target:	Integrin
Pathway:	Cytoskeleton
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (381.30 mM; Need ultrasonic)					
		Solvent Concentration	Mass			
	Preparing Stock Solutions			1 mg	5 mg	10 mg
		1 mM		3.8130 mL	19.0650 mL	38.1301 mL
		5 mM		0.7626 mL	3.8130 mL	7.6260 mL
	10 mM		0.3813 mL	1.9065 mL	3.8130 mL	
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 5 mg/mL (19.07 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 5 mg/mL (19.07 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 5 mg/mL (19.07 mM); Clear solution 					

BIOLOGICAL ACTIVITY

Description	Integrin modulator 1 is a potent and selective α4β1 integrin agonist, with an IC ₅₀ of 9.8 nM for RGD-binding α4β1. Integrin modulator 1 increases cell adhesion mediated by α4β1 integrin, with an EC ₅₀ of 12.9 nM ^[1] .
IC ₅₀ & Target	α4β1 9.8 nM (IC ₅₀)
In Vitro	Integrin modulator 1 (2-10 μg/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 ^[1] .

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].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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