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Produktinformation



Forschungsprodukte & Biochemikalien



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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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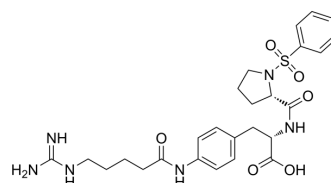
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$\alpha\beta 1$ integrin-IN-1

Cat. No.:	HY-100445
CAS No.:	1689540-62-2
Molecular Formula:	C ₂₆ H ₃₄ N ₆ O ₆ S
Molecular Weight:	558.65
Target:	Integrin
Pathway:	Cytoskeleton
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (179.00 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM		1.7900 mL	8.9501 mL	17.9003 mL
		5 mM		0.3580 mL	1.7900 mL	3.5801 mL
		10 mM		0.1790 mL	0.8950 mL	1.7900 mL
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (4.48 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (4.48 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (4.48 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	$\alpha\beta 1$ integrin-IN-1 (Compound C8) is a potent and selective $\alpha\beta 1$ integrin inhibitor with an IC ₅₀ of 0.63 nM. Antifibrotic effects ^[1] .
IC ₅₀ & Target	IC ₅₀ : 0.63 nM ($\alpha\beta 1$ integrin) ^[1]
In Vitro	$\alpha\beta 1$ integrin-IN-1 (Compound C8) significantly reduces the fibrotic markers in mouse model for liver and lung fibrosis ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Cancer Cell. 2023 Apr 10;41(4):757-775.e10.
- ACS Nano. 2023 Nov 20.
- Acta Biomater. 2021 Mar 9;S1742-7061(21)00152-5.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Reed NI, et al. Exploring N-Arylsulfonyl-L-proline Scaffold as a Platform for Potent and Selective $\alpha\text{v}\beta 1$ Integrin Inhibitors. ACS Med Chem Lett. 2016 Aug 30;7(10):902-907.

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

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