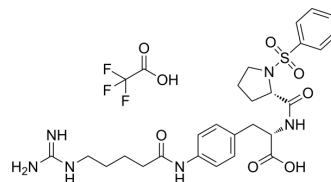


## $\alpha\beta$ 1 integrin-IN-1 TFA

<b>Cat. No.:</b>	HY-100445A
<b>Molecular Formula:</b>	C <sub>28</sub> H <sub>35</sub> F <sub>3</sub> N <sub>6</sub> O <sub>8</sub> S
<b>Molecular Weight:</b>	672.67
<b>Target:</b>	Integrin
<b>Pathway:</b>	Cytoskeleton
<b>Storage:</b>	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 250 mg/mL (371.65 mM; Need ultrasonic)					
	H <sub>2</sub> O : 5 mg/mL (7.43 mM; ultrasonic and warming and heat to 60°C)					
	<b>Preparing Stock Solutions</b>	<b>Solvent</b>	<b>Mass</b>	<b>1 mg</b>	<b>5 mg</b>	<b>10 mg</b>
		<b>Concentration</b>				
		<b>1 mM</b>		1.4866 mL	7.4331 mL	14.8661 mL
<b>5 mM</b>			0.2973 mL	1.4866 mL	2.9732 mL	
	<b>10 mM</b>		0.1487 mL	0.7433 mL	1.4866 mL	
Please refer to the solubility information to select the appropriate solvent.						
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (3.09 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (3.09 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (3.09 mM); Clear solution					

### BIOLOGICAL ACTIVITY

<b>Description</b>	$\alpha\beta$ 1 integrin-IN-1 TFA (Compound C8) is a potent and selective $\alpha\beta$ 1 integrin inhibitor with an IC <sub>50</sub> of 0.63 nM. Antifibrotic effects <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	IC50: 0.63 nM ( $\alpha\beta$ 1 integrin) <sup>[1]</sup>
<b>In Vitro</b>	$\alpha\beta$ 1 integrin-IN-1 TFA (Compound C8) significantly reduces the fibrotic markers in mouse model for liver and lung fibrosis <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## CUSTOMER VALIDATION

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

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

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## REFERENCES

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

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

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