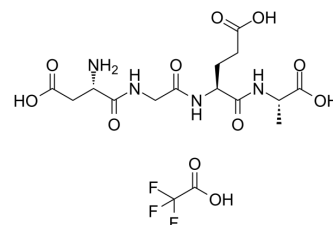


## $\alpha 2\beta 1$ Integrin Ligand Peptide TFA

<b>Cat. No.:</b>	HY-P1868A
<b>Molecular Formula:</b>	C <sub>16</sub> H <sub>23</sub> F <sub>3</sub> N <sub>4</sub> O <sub>11</sub>
<b>Molecular Weight:</b>	504.37
<b>Sequence:</b>	Asp-Gly-Glu-Ala
<b>Sequence Shortening:</b>	DGEA
<b>Target:</b>	Integrin
<b>Pathway:</b>	Cytoskeleton
<b>Storage:</b>	Sealed storage, away from moisture and light
	Powder    -80°C    2 years
	-20°C    1 year



\* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)

### SOLVENT & SOLUBILITY

<b>In Vitro</b>	H <sub>2</sub> O : 33.33 mg/mL (66.08 mM; Need ultrasonic)					
	<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>		1.9827 mL	9.9134 mL	19.8267 mL
		<b>5 mM</b>		0.3965 mL	1.9827 mL	3.9653 mL
	<b>10 mM</b>		0.1983 mL	0.9913 mL	1.9827 mL	
Please refer to the solubility information to select the appropriate solvent.						
<b>In Vivo</b>	1. Add each solvent one by one: PBS Solubility: 20 mg/mL (39.65 mM); Clear solution; Need ultrasonic					

### BIOLOGICAL ACTIVITY

<b>Description</b>	$\alpha 2\beta 1$ Integrin Ligand Peptide TFA interacts with the $\alpha 2\beta 1$ integrin receptor on the cell membrane and mediates extracellular signals into cells. It is a potential antagonist of collagen receptors <sup>[1]</sup> .
<b>In Vitro</b>	<p><math>\alpha 2\beta 1</math> Integrin Ligand Peptide (DGEA) TFA (0.015-2.0 mM) inhibits SA11, RRV, and Wa infection in a dose-dependent manner and had no effect on CRW-8 infectivity<sup>[1]</sup>.</p> <p><math>\alpha 2\beta 1</math> Integrin Ligand Peptide TFA induces tyrosine kinase-dependent calcium mobilization in osteoblasts and fibroblasts at concentrations of <math>\geq 0.5</math> mM<sup>[1]</sup>.</p> <p><math>\alpha 2\beta 1</math> Integrin Ligand Peptide TFA loses its ability to inhibit SA11 binding at 1.0 mM<sup>[1]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

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## CUSTOMER VALIDATION

- Acta Biomater. 2021 Mar 9;S1742-7061(21)00152-5.
- Cancer Manag Res. 2020 Nov 24;12:12067-12075.

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

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## REFERENCES

[1]. Graham KL, et al. Effects on rotavirus cell binding and infection of monomeric and polymeric peptides containing alpha2beta1 and alphaxbeta2 integrin ligand sequences. J Virol. 2004 Nov;78(21):11786-97.

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

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