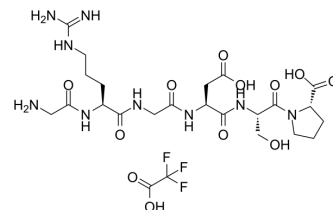


## GRGDSP TFA

<b>Cat. No.:</b>	HY-P0290A
<b>Molecular Formula:</b>	C <sub>24</sub> H <sub>38</sub> F <sub>3</sub> N <sub>9</sub> O <sub>12</sub>
<b>Molecular Weight:</b>	701.61
<b>Sequence:</b>	Gly-Arg-Gly-Asp-Ser-Pro
<b>Sequence Shortening:</b>	GRGDSP
<b>Target:</b>	Integrin
<b>Pathway:</b>	Cytoskeleton
<b>Storage:</b>	Sealed storage, away from moisture
	Powder    -80°C    2 years
	-20°C    1 year



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

## SOLVENT & SOLUBILITY

<b>In Vitro</b>	H <sub>2</sub> O : 125 mg/mL (178.16 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	<b>Preparing Stock Solutions</b>		1 mg	5 mg	10 mg
		1 mM	1.4253 mL	7.1265 mL	14.2529 mL
		5 mM	0.2851 mL	1.4253 mL	2.8506 mL
	10 mM	0.1425 mL	0.7126 mL	1.4253 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: 50 mg/mL (71.26 mM); Clear solution; Need ultrasonic				

## BIOLOGICAL ACTIVITY

<b>Description</b>	GRGDSP (TFA) is an integrin inhibitor.
<b>IC<sub>50</sub> &amp; Target</b>	Integrin <sup>[1]</sup> .
<b>In Vitro</b>	It is demonstrated that transarterial infusion of GRGDSP (Gly-Arg-Gly-Asp-Ser-Pro integrin-inhibitor which includes RGD-peptide). As a synthetic linear RGD peptide, GRGDSP (Gly-Arg-Gly-Asp-Ser-Pro) can inhibit the adherence of tumor cells to endothelial cells of blood vessels and limit its metastasis <sup>[1]</sup> . GRGDSP (Gly-Arg-Gly-Asp-Ser-Pro) is used as a soluble integrin-blocking RGD-based peptide. GRGDSP is used widely together with other RGD peptides in integrin research. GRGDSP can be used to modify the surface of cardiovascular implants such as vascular grafts to promote endothelialization <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## CUSTOMER VALIDATION

- Theranostics. 2022; 12(17): 7307-7318
- Am J Transl Res. 2022;14(11):7726-7743.
- Biomed Res Int. 2020 Oct 20;2020:2905634.

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## REFERENCES

- [1]. Qian J, et al. Transarterial administration of integrin inhibitor loaded nanoparticles combined with transarterial chemoembolization for treating hepatocellular carcinoma in a rat model. World J Gastroenterol. 2016 Jun 7;22(21):5042-9.
- [2]. Patel S, et al. Regulation of endothelial cell function by GRGDSP peptide grafted on interpenetrating polymers. J Biomed Mater Res A. 2007 Nov;83(2):423-33.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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