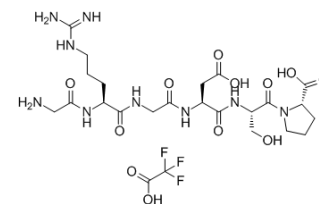


GRGDSP TFA

Cat. No.:	HY-P0290A		
Molecular Formula:	C ₂₄ H ₃₈ F ₃ N ₉ O ₁₂		
Molecular Weight:	701.61		
Sequence:	Gly-Arg-Gly-Asp-Ser-Pro		
Sequence Shortening:	GRGDSP		
Target:	Integrin		
Pathway:	Cytoskeleton		
Storage:	Powder	-80°C	2 years
		-20°C	1 year
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

H₂O : 125 mg/mL (178.16 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent		Mass		
	Concentration		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.

BIOLOGICAL ACTIVITY

Description

GRGDSP (TFA) is an **integrin** inhibitor.

IC₅₀ & Target

Integrin^[1].

In Vitro

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^[1]. 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^[2].

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.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA