

## GRGDSP

## Chemical Properties

CAS No. : 91037-75-1

Formula: C<sub>22</sub>H<sub>37</sub>N<sub>9</sub>O<sub>10</sub>

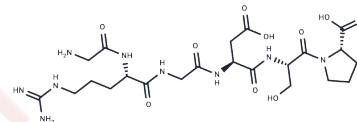
Molecular Weight: 587.58

Storage:

Keep away from moisture, Keep away from direct sunlight

Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	GRGDSP (Gly-Arg-Gly-Asp-Ser-Pro) is a linear RGD peptide and a fibronectin-derived peptide, and is also an effective integrin inhibitor, which can be used to modify the surface of cardiovascular implants to promote endothelialization.
Targets(IC50)	ERK, Integrin
In vitro	The effects of immobilized GRGDSP molecules on EC function were investigated under static and flow conditions at clearly defined GRGDSP surface densities (0-3 pmol/cm <sup>2</sup> ). As the GRGDSP surface density increased, EC adhesion and migration progressively enhanced. Cell adhesion and migration on GRGDSP induced ERK activation, with a GRGDSP density of 0.2 pmol/cm <sup>2</sup> sufficient to activate ERK. [2]

## Solubility Information

Solubility	H <sub>2</sub> O: 80 mg/mL (136.15 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7019 mL	8.5095 mL	17.019 mL
5 mM	0.3404 mL	1.7019 mL	3.4038 mL
10 mM	0.1702 mL	0.8509 mL	1.7019 mL
50 mM	0.034 mL	0.1702 mL	0.3404 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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.

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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