

Gly-Arg-Gly-Asp-Ser

Chemical Properties

CAS No.:	96426-21-0
Formula:	C ₁₇ H ₃₀ N ₈ O ₉
Molecular Weight:	490.47
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Gly-Arg-Gly-Asp-Ser (GRGDS) GRGDS is a cell binding protein domain derived from the cell-binding region of fibronectin.
Targets(IC ₅₀)	α v β 3: 5 μ M α v β 5: 6.5 μ M : None
In vitro	Gly-Arg-Gly-Asp-Ser binds to integrin receptors α v β 3, with IC ₅₀ of 5 μ M[1]. Gly-Arg-Gly-Asp-Ser-immobilized TiO ₂ nanotubes enhance osteoblast-like cell (MG-63) adhesion, and significantly increased cell spreading and proliferation[2].

Solubility Information

Solubility	H ₂ O: 33.33 mg/mL (67.96 mM) DMSO: 100 mg/mL (203.89 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.039 mL	10.194 mL	20.389 mL
5 mM	0.408 mL	2.039 mL	4.078 mL
10 mM	0.204 mL	1.019 mL	2.039 mL
50 mM	0.041 mL	0.204 mL	0.408 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Bernhagen D, et al. High-Affinity RGD-Knottin Peptide as a New Tool for Rapid Evaluation of the Binding Strength of Unlabeled RGD-Peptides to α v β 3, α v β 5, and α 5 β 1 Integrin Receptors. Anal Chem. 2017 Jun 6;89(11):5991-5997.

Inhibitors · Natural Compounds · Compound Libraries

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