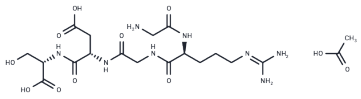
Data Sheet (Cat.No.TP1459L)

TargetMol
YOUR TARGET MOLECULES

Gly-Arg-Gly-Asp-Ser acetate(96426-21-0 free base)

Chemical Properties



CAS No. : TP1459L

Formula: C19H34N8O11

Molecular Weight: 550.52

Appearance: no data available

Storage: keep away from moisture
Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	Gly-Arg-Gly-Asp-Ser (GRGDS) acetate is a cell binding protein domain derived from the cell-binding region of fibronectin.
Targets(IC50)	Integrin
In vitro	Gly-Arg-Gly-Asp-Ser binds to integrin receptors αvβ3, with IC50 of 5 μM[1]. Gly-Arg-Gly-Asp-Ser-immobilized TiO2 nanotubes enhance osteoblast-like cell (MG-63) adhesion, and significantly increased cell spreading and proliferation[2].

Solubility Information

Solubility	DMSO: Insoluble, H2O: 10 mM, (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8165 mL	9.0823 mL	18.1646 mL
5 mM	0.3633 mL	1.8165 mL	3.6329 mL
10 mM	0.1816 mL	0.9082 mL	1.8165 mL
50 mM	0.0363 mL	0.1816 mL	0.3633 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.

Reference

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 αvβ3, αvβ5, and α5β1 Integrin Receptors. Anal Chem. 2017 Jun 6;89(11):5991-5997.

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