

Fibronectin Adhesion-promoting Peptide

Chemical Properties

CAS No.:	125720-21-0
Formula:	C ₄₇ H ₇₄ N ₁₆ O ₁₀
Molecular Weight:	1023.19
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Fibronectin Adhesion-promoting Peptide (Heparin Binding Peptide) is one of the heparin-binding amino acid sequences found in the carboxy-terminal heparin-binding domain of fibronectin.
In vitro	GRGDS and Fibronectin Adhesion-promoting Peptide (Heparin Binding Peptide: WQPPRARI) micropatterns increase the endothelialisation of prosthetic materials in vitro. Fibronectin Adhesion-promoting Peptide also enhances haptotactic cell migration. The anti-apoptotic effects of fibronectin require the presence of the WQPPRARI sequence, which may be due to synergistic survival sigls mediated by this sequence and by the RGD motif[1]. RDGS and Fibronectin Adhesion-promoting Peptide promote cell adhesion through different activation pathways that induce different forms of adhesion which can be highlighted through the alysis of focal and fibrillar contacts[2].

Solubility Information

Solubility	H ₂ O: 2 mg/mL (1.95 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.977 mL	4.887 mL	9.773 mL
5 mM	0.195 mL	0.977 mL	1.955 mL
10 mM	0.098 mL	0.489 mL	0.977 mL
50 mM	0.02 mL	0.098 mL	0.195 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. Hoesli CA, et al. A fluorophore-tagged RGD peptide to control endothelial cell adhesion to micropatterned surfaces. Biomaterials. 2014 Jan;35(3):879-90.

Inhibitors · Natural Compounds · Compound Libraries

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