



Certificate of Analysis

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Product Name: Peptide F9 Catalog No.: 1903 Batch No.: 1

CAS Number: 117609-40-2

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{110}H_{175}N_{31}O_{27}S_2$

Batch Molecular Weight: 2427.9

Physical Appearance: White lyophilised solid

Net Peptide Content: 86%

Solubility: Soluble to 2 mg/ml in water

Storage: Desiccate at -20°C

Peptide Sequence: Arg-Tyr-Val-Val-Leu-Pro-Arg-Pro-Val-Cys-

Phe-Glu-Lys-Gly-Met-Asn-Tyr-Thr-Val-Arg

2. ANALYTICAL DATA

HPLC: Shows >95% purity

3. AMINO ACID ANALYSIS DATA

Amino Acid	Theoretical	Actual	Amino Acid	Theoretical	Actual
Ala			Lys	1.00	0.99
Arg	3.00	3.00	Met	1.00	1.02
Asx	1.00	0.97	Phe	1.00	1.03
Cys	1.00		Pro	2.00	2.06
Glx	1.00	1.05	Ser		
Gly	1.00	1.05	Thr	1.00	1.05
His			Trp		
lle			Tyr	2.00	2.06
Leu	1.00	0.99	Val	4.00	3.92



Product Information

Print Date: Jan 15th 2016

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CAS Number: 117609-40-2

Description:

Peptide derived from the heparin-binding domain in the B1 chain of laminin. Binds to heparin, promotes cell adhesion, and inhibits the migration towards, and adhesion of metastatic fibrosarcoma cells to laminin.

Physical and Chemical Properties:

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Batch Molecular Weight: 2427.9

Physical Appearance: White lyophilised solid

Peptide Sequence:

Arg-Tyr-Val-Val-Leu-Pro-Arg-Pro-Val-Cys-Phe-Glu-Lys-Gly-Met-Asn-Tyr-Thr-Val-Arg Storage: Desiccate at -20°C

Solubility & Usage Info:

Soluble to 2 mg/ml in water

This product is supplied as a lyophilized solid and may be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

Net Peptide Content: 86% (Remaining weight made up of counterions and residual water).

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Peptides in solution are much less stable than in lyophilized form. This is especially true for peptides whose sequences contain amino acids such Cys, Met,Trp, Asn, Gln, and N-terminal Glu.

Therefore we recommend storing peptides in solution for as short a time as possible. Avoid repeated freeze thaw cycles by dividing the peptide solution into aliquots and storing the aliquots at -20°C. Any portion of an aliquot unused after thawing should be discarded.

Peptides stored in solution can occasionally be susceptible to bacterial degradation. We recommend using sterile solutions or passing the peptide solution through a 0.2 µm filter to remove potential bacterial contamination whenever possible.

References:

Charonis et al (1988) A novel synthetic peptide from the B1 chanin of laminin with heparin-binding and cell adhesion-promoting activities. J.Cell Biol. 107 1253. PMID: 3417782.

Skubitz *et al* (1990) Definition of a sequence, RYVVLPR, within laminin peptide F-9 that mediates metastatic fibrosarcoma cell adhesion and spreading. Cancer Res. *50* 7612. PMID: 2253210.

Schuger *et al* (1996) Laminin and heparan sulfate proteoglycan mediate epithelial cell polarization in organotypic cultures of embryonic lung cells: evidence implicating involvement of the inner globular region of laminin β 1 chain and the heparan sulfate groups of heparan sulfate proteoglycan. Dev.Biol. *179* 264. PMID: 8873769.