



Certificate of Analysis

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Product Name: P11 Catalog No.: 4744 Batch No.: 2

CAS Number: 848644-86-0

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{30}H_{48}N_{12}O_9$

Batch Molecular Weight: 720.78

Physical Appearance: White lyophilised solid

Net Peptide Content: 58%
Counter Ion: TFA

Solubility: Soluble to 2 mg/ml in water

Storage: Store at -20°C

Peptide Sequence: His-Ser-Asp-Val-His-Lys-NH₂

2. ANALYTICAL DATA

HPLC: Shows 96.2% purity

Mass Spectrum: Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid Theoretical Actual Amino Acid Theoretical Actual					
Ala			Lys	1.00	0.99
Arg			Met		
Asx	1.00	1.01	Phe		
Cys			Pro		
Glx			Ser	1.00	0.99
Gly			Thr		
His	2.00	1.89	Trp		
lle			Tyr		
Leu			Val	1.00	0.91

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use



Product Information

Print Date: Jan 31st 2019

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Product Name: P11 Catalog No.: 4744 Batch No.: 2

CAS Number: 848644-86-0

Description:

Potent antagonist of the integrin $\alpha_v \beta_3$ -vitronectin interaction (IC₅₀ = 25.72 nM). Blocks proliferation and induces apoptosis in HUVECs; antiangiogenic.

Physical and Chemical Properties:

Batch Molecular Formula: $C_{30}H_{48}N_{12}O_9$ Batch Molecular Weight: 720.78

Physical Appearance: White lyophilised solid

Peptide Sequence:

His-Ser-Asp-Val-His-Lys-NH₂

Storage: Store 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: 58% (Remaining weight made up of counterions and residual water).

Counter Ion: TFA

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 μ m filter to remove potential bacterial contamination whenever possible.

References:

Bang *et al* (2011) Pharmacoproteomic analysis of a novel cell-permeable inhibitor of tumor-induced angiogenesis. Mol.Cell Proteomics *10* M110. PMID: 21558493.

Choi et al (2010) Site-specific inhibition of integrin alpha v beta 3-vitronectin association by a ser-asp-val sequence through an Arg-Gly-Asp-binding site of the integrin. Proteomics 10 72. PMID: 19882657.

Lee et al (2004) High-throughput screening of novel peptide inhibitors of an integrin receptor from the hexapeptide library by using a protein microarray chip. J.Biomol.Screen. 9 687. PMID: 15634795.

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