



Certificate of Analysis

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Product Name: ATN 161 Catalog No.: 6058 Batch No.: 7

CAS Number: 262438-43-7

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₃H₃₅N₉O₈S

Batch Molecular Weight: 597.65

Physical Appearance: White lyophilised solid

Counter Ion: TFA

Solubility: Soluble to 2 mg/ml in water

Storage: Store at -20°C

Peptide Sequence: Ac-Pro-His-Ser-Cys-Asn-NH₂

2. ANALYTICAL DATA

HPLC: Shows 97.7% purity

Mass Spectrum: Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid Theoretical Actual			Amino Acid Theoretical Actual		
Ala			Lys		
Arg			Met		
Asx	1.00	0.98	Phe		
Cys	1.00	Not Detected	Pro	1.00	0.98
Glx			Ser	1.00	0.51
Gly			Thr		
His	1.00	1.03	Trp		
lle			Tyr		
Leu			Val		

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

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Product Information

Print Date: Oct 31st 2024

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Product Name: ATN 161 Catalog No.: 6058 7

CAS Number: 262438-43-7

Description:

ATN 161 is a $\alpha5\beta1$ integrin receptor antagonist. Reduces liver metastasis and improves survival in combination with 5-FU (Cat. No. 3257) in a mouse model of colon cancer. Reduces MLL tumor growth in rats and decreases tumor volume of human MDA-MB-231 cell xenografts in mice.

Physical and Chemical Properties:

Batch Molecular Formula: C₂₃H₃₅N₉O₈S Batch Molecular Weight: 597.65

Physical Appearance: White lyophilised solid

Peptide Sequence:

Ac-Pro-His-Ser-Cys-Asn-NH2

Storage: Store at -20°C
Solubility & Usage Info:
Soluble to 2 mg/ml in 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:

Khalili *et al* (2006) A non-RGD-based integrin binding peptide (ATN-161) blocks breast cancer growth and metastasis *in vivo*. Mol.Cancer Ther. **5** 2271. PMID: 16985061.

Stoeltzing et al (2003) Inhibition of integrin α 5 β 1 function with a small peptide (ATN-161) plus continuous 5-FU infusion reduces colorectal liver metastases and improves survival in mice. Int.J.Cancer. **104** 496. PMID: 12584749.

Livant et al (2000) Anti-invasive, antitumorigenic, and antimetastatic activities of the PHSCN sequence in prostate carcinoma. Cancer Res. 60 309, PMID: 10667582.

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