

Certificate of Analysis

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Product Name: NTR 368
CAS Number: 197230-90-3

Catalog No.: 2087 **Batch No.:** 1

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{69}H_{124}N_{22}O_{19}$
Batch Molecular Weight: 1565.87
Physical Appearance: White lyophilised solid
Net Peptide Content: 86%
Solubility: Soluble to 1 mg/ml in water
Storage: Desiccate at -20°C
Peptide Sequence: Ac-Ala-Thr-Leu-Asp-Ala-Leu-Leu-Ala-Ala-Leu
 Arg-Arg-Ile-Gln-NH₂

2. ANALYTICAL DATA

HPLC: Shows >95% purity
Mass Spectrum: Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid Theoretical Actual			Amino Acid Theoretical Actual		
Ala	4.00	3.92	Lys		
Arg	2.00	1.99	Met		
Asx	1.00	1.00	Phe		
Cys			Pro		
Glx	1.00	1.02	Ser		
Gly			Thr	1.00	1.01
His			Trp		
Ile	1.00	0.97	Tyr		
Leu	4.00	4.08	Val		

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

Product Information

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Product Name: NTR 368
CAS Number: 197230-90-3

Catalog No.: 2087 **Batch No.:** 1

Description:

Peptide fragment corresponding to residues 368-381 of the human p75 neurotrophin receptor (p75^{NTR}). Forms a helical structure in the presence of micellar lipid. Induces apoptosis in human neuroblastoma cells in vitro.

Physical and Chemical Properties:

Batch Molecular Formula: C₆₉H₁₂₄N₂₂O₁₉

Batch Molecular Weight: 1565.87

Physical Appearance: White lyophilised solid

Peptide Sequence:

Ac-Ala-Thr-Leu-Asp-Ala-Leu-Leu-Ala-Ala-Leu
Arg-Arg-Ile-Gln-NH₂

Storage: Desiccate at -20°C

Solubility & Usage Info:

Soluble to 1 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 as 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:

Hileman et al (1997) A cytoplasmic peptide of the neurotrophin receptor p75^{NTR}: induction of apoptosis and NMR determined helical conformation. *FEBS Lett.* **415** 145. PMID: 9350985.

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