



Certificate of Analysis

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Product Name: Amyloid β-Peptide (10-20) (human) Catalog No.: 1892 Batch No.: 1

CAS Number: 152286-31-2

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{71}H_{99}N_{17}O_{16}$

Batch Molecular Weight: 1446.67

Physical Appearance: White lyophilised solid

Net Peptide Content: 70%

Solubility: Soluble to 1 mg/ml in water

Storage: Desiccate at -20°C

Peptide Sequence: Tyr-Glu-Val-His-His-Gln-Lys-Leu-Val-Phe-Phe

2. ANALYTICAL DATA

HPLC: Shows >95% purity

3. AMINO ACID ANALYSIS DATA

Amino Acid	Theoretical	Actual	Amino Acid	Theoretical	Actual
Ala			Lys	1.00	1.02
Arg			Met		
Asx			Phe	2.00	1.94
Cys			Pro		
Glx	2.00	1.85	Ser		
Gly			Thr		
His	2.00	1.75	Trp		
lle			Tyr	1.00	1.05
Leu	1.00	1.00	Val	2.00	2.00



Product Information

Print Date: Jan 15th 2016

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CAS Number: 152286-31-2

Description:

Soluble amyloid β -peptide fragment that is a substrate for gelatinase A/type IV collagenase/MMP-2 and APP secretase; cleaved between Lys¹6 and Leu¹7.

Physical and Chemical Properties:

Batch Molecular Formula: $C_{71}H_{99}N_{17}O_{16}$ Batch Molecular Weight: 1446.67

Physical Appearance: White lyophilised solid

Peptide Sequence:

Tyr-Glu-Val-His-His-Gln-Lys-Leu-Val-Phe-Phe

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: 70% (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 μ m filter to remove potential bacterial contamination whenever possible.

References:

Miyazaki *et al* (1993) A metalloproteinase inhibitor domain in Alzheimer amyloid protein precursor. Nature *362* 839. PMID: 8479521. **Roher** *et al* (1994) Proteolysis of Aβ peptide from Alzheimer disease brain by gelatinase A. Biochem.Biophys.Res.Commun. *205* 1755. PMID: 7811262.

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