

Certificate of Analysis

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Product Name: Amyloid β -Peptide (1-43) (human)

Catalog No.: 1938

Batch No.: 1

CAS Number: 134500-80-4

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₂₀₇ H ₃₁₈ N ₅₆ O ₆₂ S
Batch Molecular Weight:	4615.19
Physical Appearance:	White lyophilised solid
Net Peptide Content:	70%
Counter Ion:	Trifluoroacetate
Solubility:	Soluble to 1 mg/ml in acetic acid
Storage:	Desiccate at -20°C
Peptide Sequence:	Asp-Ala-Glu-Phe-Arg-His-Asp-Ser-Gly-Tyr- Glu-Val-His-His-Gln-Lys-Leu-Val-Phe-Phe- Ala-Glu-Asp-Val-Gly-Ser-Asn-Lys-Gly-Ala- Ile-Ile-Gly-Leu-Met-Val-Gly-Gly-Val-Val- Ile-Ala-Thr

2. ANALYTICAL DATA

HPLC: Shows >95% purity

3. AMINO ACID ANALYSIS DATA

Amino Acid Theoretical Actual			Amino Acid Theoretical Actual		
Ala	4.00	4.43	Lys	2.00	2.18
Arg	1.00	0.88	Met	1.00	1.18
Asx	4.00	4.10	Phe	3.00	3.00
Cys			Pro		
Glx	4.00	3.86	Ser	2.00	1.96
Gly	6.00	6.77	Thr	1.00	1.14
His	3.00	3.06	Trp		
Ile	3.00	2.11	Tyr	1.00	1.04
Leu	2.00	2.12	Val	6.00	5.17

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

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CAS Number: 134500-80-4

Description:

Human β -amyloid peptide; minor component of neuritic plaques found in brains of patients with Alzheimer's disease.

Physical and Chemical Properties:Batch Molecular Formula: C₂₀₇H₃₁₈N₅₆O₆₂S

Batch Molecular Weight: 4615.19

Physical Appearance: White lyophilised solid

Peptide Sequence:

Asp-Ala-Glu-Phe-Arg-His-Asp-Ser-Gly-Tyr-
Glu-Val-His-His-Gln-Lys-Leu-Val-Phe-Phe-
Ala-Glu-Asp-Val-Gly-Ser-Asn-Lys-Gly-Ala-
Ile-Ile-Gly-Leu-Met-Val-Gly-Gly-Val-Val-
Ile-Ala-Thr

Storage: Desiccate at -20°C**Solubility & Usage Info:**

Soluble to 1 mg/ml in acetic acid

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).**Counter Ion:** Trifluoroacetate**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 μ m filter to remove potential bacterial contamination whenever possible.

References:

Hilbich *et al* (1991) Human and rodent sequence analogs of Alzheimer's amyloid β A4 share similar properties and can be solubilized in buffers of pH 7.4. *Eur.J.Biochem.* **201** 61. PMID: 1915378.

Mori *et al* (1992) Mass spectrometry of purified amyloid β protein in Alzheimer's disease. *J.Biol.Chem.* **267** 17082. PMID: 1512246.

Jarrett *et al* (1993) The carboxy terminus of the β amyloid protein is critical for the seeding of amyloid formation: implications for the pathogenesis of Alzheimer's disease. *Biochemistry* **32** 4693. PMID: 8490014.

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