

Certificate of Analysis

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Product Name: Amylin
CAS Number: 122384-88-7

Catalog No.: 3418 **Batch No.:** 17

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₆₅H₂₆₁N₅₁O₅₅S₂
Batch Molecular Weight: 3903.33
Physical Appearance: White lyophilised solid
Counter Ion: TFA
Solubility: Soluble to 10 mg/ml in DMSO
Storage: Store at -20°C
Peptide Sequence: Lys-Cys-Asn-Thr-Ala-Thr-Cys-Ala-Thr-Gln-Arg-Leu-Ala-Asn-Phe-Leu-Val-His-Ser-Ser-Asn-Asn-Phe-Gly-Ala-Ile-Leu-Ser-Ser-Thr-Asn-Val-Gly-Ser-Asn-Thr-Tyr-NH₂

2. ANALYTICAL DATA

HPLC: Shows 96.6% purity
Mass Spectrum: Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid Theoretical Actual			Amino Acid Theoretical Actual		
Ala	4.00	3.99	Lys	1.00	0.98
Arg	1.00	1.00	Met		
Asx	6.00	6.02	Phe	2.00	2.05
Cys	2.00	0.85	Pro		
Glx	1.00	1.00	Ser	5.00	3.47
Gly	2.00	2.07	Thr	5.00	4.03
His	1.00	0.95	Trp		
Ile	1.00	1.01	Tyr	1.00	0.87
Leu	3.00	3.07	Val	2.00	1.98

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

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Product Name: Amylin

Catalog No.: 3418

Batch No.: 17

CAS Number: 122384-88-7

Description:

Amylin is an endogenous peptide agonist for amylin, calcitonin, CGRP and adrenomedullin receptors. Inhibits glucagon secretion, delays gastric emptying and acts as a satiety agent. Displays glucose lowering effects in vivo.

Physical and Chemical Properties:

Batch Molecular Formula: C₁₆₅H₂₆₁N₅₁O₅₅S₂

Batch Molecular Weight: 3903.33

Physical Appearance: White lyophilised solid

Peptide Sequence:

Lys-Cys-Asn-Thr-Ala-Thr-Cys-Ala-Thr-Gln-
Arg-Leu-Ala-Asn-Phe-Leu-Val-His-Ser-Ser-
Asn-Asn-Phe-Gly-Ala-Ile-Leu-Ser-Ser-Thr-
Asn-Val-Gly-Ser-Asn-Thr-Tyr-NH₂

Storage: Store at -20°C

Solubility & Usage Info:

Soluble to 10 mg/ml in DMSO

This product is supplied in lyophilized form. It may appear as a solid, gel or film and 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. To reconstitute this product, it is recommended to start making a stock solution in 100% DMSO, then dilute with 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 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:

Hoogwerf *et al* (2008) Pramlintide, the synthetic analogue of amylin: physiology, pathophysiology, and effects on glycemic control, body weight, and selected biomarkers of vascular risk. *Vasc. Health Risk Manag.* **4** 355. PMID: 18561511.

Schmitz *et al* (2004) Amylin agonists: a novel approach in the treatment of diabetes. *Diabetes* **53** S233. PMID: 15561917.

Castillo *et al* (1995) Amylin/islet polypeptide: biochemistry, physiology, patho-physiology. *Diabete Metab.* **21** 3. PMID: 7781840.

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