



# **Certificate of Analysis**

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Product Name: Amylin Catalog No.: 3418 Batch No.: 2

CAS Number: 122384-88-7

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:  $C_{165}H_{261}N_{51}O_{55}S_2$ 

Batch Molecular Weight: 3903.33

Physical Appearance: White lyophilised solid

Net Peptide Content: 90%
Counter Ion: TFA

**Solubility:** Soluble to 5 mg/ml in water

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-lle-Leu-Ser-Ser-Thr-

Asn-Val-Gly-Ser-Asn-Thr-Tyr-NH2

2. ANALYTICAL DATA

**HPLC:** Shows 98% purity

Mass Spectrum: Consistent with structure



# **Product Information**

Print Date: Oct 9th 2014

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CAS Number: 122384-88-7

## **Description:**

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:**

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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 5 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:** 90% (Remaining weight made up of counterions and residual 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 µm filter to remove potential bacterial contamination whenever possible.

#### References:

**Castillo** *et al* (1995) Amylin/islet polypeptide: biochemistry, physiology, patho-physiology. Diabete Metab. *21* 3. PMID: 7781840. **Schmitz** *et al* (2004) Amylin agonists: a novel approach in the treatment of diabetes. Diabetes *53* S233. PMID: 15561917.

**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.

