

Certificate of Analysis

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Product Name: α -CGRP (human)

Catalog No.: 3012

Batch No.: 9

CAS Number: 90954-53-3

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₆₃H₂₆₇N₅₁O₄₉S₂

Batch Molecular Weight: 3789.33

Physical Appearance: White lyophilised solid

Net Peptide Content: 88.9%

Counter Ion: Acetate

Solubility: Soluble to 0.50 mg/ml in water

Storage: Desiccate at -20°C

Peptide Sequence:
 Ala-Cys-Asp-Thr-Ala-Thr-Cys-Val-Thr-His-Arg-Leu-Ala-Gly-Leu-Leu-Ser-Arg-Ser-Gly-Gly-Val-Val-Lys-Asn-Asn-Phe-Val-Pro-Thr-Asn-Val-Gly-Ser-Lys-Ala-Phe-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	3.94	Lys	2.00	2.07		
Arg	2.00	2.06	Met				
Asx	4.00	3.85	Phe	2.00	2.05		
Cys	2.00	1.09	Pro	1.00	1.06		
Glx			Ser	3.00	2.74		
Gly	4.00	4.00	Thr	4.00	3.77		
His	1.00	1.01	Trp				
Ile			Tyr				
Leu	3.00	2.95	Val	5.00	4.10		

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

bio-techne.com
info@bio-techne.com
techsupport@bio-techne.com

North America
Tel: (800) 343 7475

China
info.cn@bio-techne.com
Tel: +86 (21) 52380373

Europe Middle East Africa
Tel: +44 (0)1235 529449

Rest of World
www.tocris.com/distributors
Tel:+1 612 379 2956

Product Name: α -CGRP (human)

Catalog No.: 3012

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CAS Number: 90954-53-3

Description:

Endogenous calcitonin gene-related peptide receptor (CGRP) agonist.

Physical and Chemical Properties:

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Batch Molecular Weight: 3789.33

Physical Appearance: White lyophilised solid

Peptide Sequence:

Ala-Cys-Asp-Thr-Ala-Thr-Cys-Val-Thr-His-
Arg-Leu-Ala-Gly-Leu-Leu-Ser-Arg-Ser-Gly-
Gly-Val-Val-Lys-Asn-Asn-Phe-Val-Pro-Thr-
Asn-Val-Gly-Ser-Lys-Ala-Phe-NH₂

Storage: Desiccate at -20°C

Solubility & Usage Info:

Soluble to 0.50 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: 88.9% (Remaining weight made up of counterions and residual water).

Counter Ion: Acetate

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:

Poyner *et al* (2002) International union of pharmacology XXXII. The mammalian calcitonin gene-related peptides, adrenomedullin, amylin, and calcitonin receptors. *Pharmacol.Revs.* **54** 233.

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info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

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Tel: +86 (21) 52380373

Europe Middle East Africa

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