



Certificate of Analysis

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Product Name: CGRP (rat) Catalog No.: 1161 Batch No.: 28

CAS Number: 83651-90-5

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{162}H_{262}N_{50}O_{52}S_2$

Batch Molecular Weight: 3807

Physical Appearance: White lyophilised solid

Counter Ion: Trifluoroacetate

Solubility: Soluble to 0.80 mg/ml in water

Storage: Store at -20°C

Peptide Sequence: Ser-Cys-Asn-Thr-Ala-Thr-Cys-Val-Thr-His-

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

2. ANALYTICAL DATA

HPLC: Shows 95.5% purity

Mass Spectrum: Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid Theoretical Actual A				Amino Acid Theoretical Actual		
Ala	3.00	3.03	Lys	1.00	1.00	
Arg	2.00	1.98	Met			
Asx	4.00	3.99	Phe	2.00	2.01	
Cys	2.00	0.94	Pro	1.00	1.02	
Glx	1.00	1.02	Ser	4.00	3.05	
Gly	4.00	3.98	Thr	4.00	3.47	
His	1.00	1.00	Trp			
lle			Tyr			
Leu	3.00	2.99	Val	5.00	4.54	

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

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Product Information

Print Date: Apr 30th 2025

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Product Name: CGRP (rat) Catalog No.: 1161 Batch No.: 28

CAS Number: 83651-90-5

Description:

CGRP (rat) is an endogenous neuropeptide; potent vasodilator which also exerts cardiovascular, pro-inflammatory and metabolic effects.

Physical and Chemical Properties:

Batch Molecular Formula: $C_{162}H_{262}N_{50}O_{52}S_2$

Batch Molecular Weight: 3807

Physical Appearance: White lyophilised solid

Peptide Sequence:

Ser-Cys-Asn-Thr-Ala-Thr-Cys-Val-Thr-His-Arg-Leu-Ala-Gly-Leu-Leu-Ser-Arg-Ser-Gly-Gly-Val-Val-Lys-Asp-Asn-Phe-Val-Pro-Thr-Asn-Val-Gly-Ser-Glu-Ala-Phe-NH₂ Storage: Store at -20°C

Solubility & Usage Info:

Soluble to 0.80 mg/ml in water

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.

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 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:

Nakamura et al (1998) Calcitonin gene-related peptide as a GH secretagogue in human and rat pituitary somatotrophs. Brain Res. 807 203. PMID: 9757038.

Salim *et al* (1998) Calcitonin gene-related peptide potentiates nicotinic acetylcholine receptor-operated slow Ca²⁺ mobilization at mouse muscle endplates. Br.J.Pharmacol. *125* 277. PMID: 9786499.

Poyner (1995) Pharmacology of receptors for calcitonin gene-related peptide and amylin. TiPS 16 424. PMID: 8578616.

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