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Print Date: Nov 18th 2024

Certificate of Analysis

www.tocris.com

CGRP (rat) Product Name: CAS Number: 83651-90-5

Catalog No.: 1161 Batch No.: 27

1.00

3.06

3.46

4.52

1.00

4.00

4.00

5.00

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:	TFA					
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-NH ₂					
ANALYTICAL DATA						
HPLC:	Shows 95.2% purity					
Mass Spectrum:	Consistent with structure					
AMINO ACID ANALYSIS DATA						
	Amino Acid Theoretical Actual Amino Acid Theoretical Actual					
	Ala	3.00	2.92	Lys	1.00	1.02
	Arg	2.00	2.02	Met		
	Asx	4.00	4.02	Phe	2.00	2.02

Cys

Glx

Gly

His

lle

Leu

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

2.00

1.00

4.00

1.00

3.00

0.90

1.02

3.97

1.02

2.98

Pro

Ser

Thr

Trp

Tyr

Val

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Product Name: CGRP (rat)

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: C₁₆₂H₂₆₂N₅₀O₅₂S₂ Batch Molecular Weight: 3807 Physical Appearance: White Iyophilised 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

Catalog No.: 1161

27

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: 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 μ m 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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