

Certificate of Analysis

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Product Name: Galanin (1-30) (human)

Catalog No.: 1179

Batch No.: 17

CAS Number: 119418-04-1

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₃₉H₂₁₀N₄₂O₄₃
Batch Molecular Weight: 3157.41
Physical Appearance: White lyophilised solid
Counter Ion: Trifluoroacetate
Solubility: Soluble to 0.50 mg/ml in water
Storage: Store at -20°C
Peptide Sequence: Gly-Trp-Thr-Leu-Asn-Ser-Ala-Gly-Tyr-Leu-Leu-Gly-Pro-His-Ala-Val-Gly-Asn-His-Arg-Ser-Phe-Ser-Asp-Lys-Asn-Gly-Leu-Thr-Ser

2. ANALYTICAL DATA

HPLC: Shows 96.2% purity
Mass Spectrum: Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid Theoretical Actual			Amino Acid Theoretical Actual		
Ala	2.00	2.01	Lys	1.00	1.00
Arg	1.00	1.01	Met		
Asx	4.00	4.01	Phe	1.00	1.00
Cys			Pro	1.00	1.03
Glx			Ser	4.00	2.77
Gly	5.00	4.95	Thr	2.00	1.65
His	2.00	2.01	Trp	1.00	0.09
Ile			Tyr	1.00	0.97
Leu	4.00	3.99	Val	1.00	1.02

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

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Batch No.: 17

CAS Number: 119418-04-1

Description:

Galanin (1-30) (human) is a endogenous peptide with multiple endocrine, metabolic and behavioral effects. Has been shown to have an action on intestinal smooth muscle, insulin and somatostatin release, and synaptic neurotransmission.

Physical and Chemical Properties:

Batch Molecular Formula: C₁₃₉H₂₁₀N₄₂O₄₃

Batch Molecular Weight: 3157.41

Physical Appearance: White lyophilised solid

Peptide Sequence:

Gly-Trp-Thr-Leu-Asn-Ser-Ala-Gly-Tyr-Leu-
Leu-Gly-Pro-His-Ala-Val-Gly-Asn-His-Arg-
Ser-Phe-Ser-Asp-Lys-Asn-Gly-Leu-Thr-Ser

Storage: Store at -20°C

Solubility & Usage Info:

Soluble to 0.50 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:

Niir *et al* (1998) Mechanisms of galanin-induced contraction in the rat myometrium. *Br.J.Pharmacol.* **124** 1623. PMID: 9756377.

Wang *et al* (1998) Hypothalamic galanin: control by signals of fat metabolism. *Brain Res.* **804** 7. PMID: 9729239.

Schmidt *et al* (1991) Isolation and primary structure of pituitary human galanin, a 30-residue nonamidated neuropeptide. *Proc.Natl.Acad.Sci.U.S.A.* **88** 11435. PMID: 1722333.

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