

# Certificate of Analysis

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

**Catalog No.:** 1179

**Batch No.:** 16

CAS Number: 119418-04-1

## 1. PHYSICAL AND CHEMICAL PROPERTIES

<b>Batch Molecular Formula:</b>	C <sub>139</sub> H <sub>210</sub> N <sub>42</sub> O <sub>43</sub>
<b>Batch Molecular Weight:</b>	3157.41
<b>Physical Appearance:</b>	White lyophilised solid
<b>Counter Ion:</b>	TFA
<b>Solubility:</b>	Soluble to 0.50 mg/ml in water
<b>Storage:</b>	Store at -20°C
<b>Peptide Sequence:</b>	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

<b>HPLC:</b>	Shows 96.5% purity
<b>Mass Spectrum:</b>	Consistent with structure

## 3. AMINO ACID ANALYSIS DATA

Amino Acid Theoretical			Actual		
Ala	2.00	1.90	Lys	1.00	0.98
Arg	1.00	1.00	Met		
Asx	4.00	4.23	Phe	1.00	1.01
Cys			Pro	1.00	0.98
Glx			Ser	4.00	2.83
Gly	5.00	4.88	Thr	2.00	1.71
His	2.00	2.12	Trp	1.00	0.05
Ile			Tyr	1.00	1.06
Leu	4.00	3.86	Val	1.00	0.98

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

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**Product Name:** Galanin (1-30) (human)**Catalog No.:** 1179**16**

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: C<sub>139</sub>H<sub>210</sub>N<sub>42</sub>O<sub>43</sub>

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:** 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 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:**

**Niuro *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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