

Certificate of Analysis

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Product Name: Secretin (rat)

Catalog No.: 1919

Batch No.: 4

CAS Number: 121028-49-7

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₁₂₉ H ₂₁₆ N ₄₂ O ₄₂
Batch Molecular Weight:	3027.38
Physical Appearance:	White lyophilised solid
Counter Ion:	TFA
Solubility:	Soluble to 2 mg/ml in water
Storage:	Desiccate at -20°C
Peptide Sequence:	His-Ser-Asp-Gly-Thr-Phe-Thr-Ser-Glu-Leu- Ser-Arg-Leu-Gln-Asp-Ser-Ala-Arg-Leu-Gln- Arg-Leu-Leu-Gln-Gly-Leu-Val-NH ₂

2. ANALYTICAL DATA

HPLC: Shows 97.6% purity

3. AMINO ACID ANALYSIS DATA

Amino Acid		Theoretical	Actual	Amino Acid		Theoretical	Actual
Ala	1.00	1.01	Lys				
Arg	3.00	2.96	Met				
Asx	2.00	2.00	Phe	1.00	0.98		
Cys			Pro				
Glx	4.00	3.94	Ser	4.00	2.13		
Gly	2.00	2.07	Thr	2.00	1.48		
His	1.00	0.98	Trp				
Ile			Tyr				
Leu	6.00	6.02	Val	1.00	1.03		

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

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Description:

Gastrointestinal peptide that stimulates pancreatic and biliary secretion. Also thought to play a role in the regulation of the hypothalamus-pituitary-adrenal axis.

Physical and Chemical Properties:Batch Molecular Formula: C₁₂₉H₂₁₆N₄₂O₄₂

Batch Molecular Weight: 3027.38

Physical Appearance: White lyophilised solid

Peptide Sequence:

His-Ser-Asp-Gly-Thr-Phe-Thr-Ser-Glu-Leu-
Ser-Arg-Leu-Gln-Asp-Ser-Ala-Arg-Leu-Gln-
Arg-Leu-Leu-Gln-Gly-Leu-Val-NH₂

Storage: Desiccate at -20°C**Solubility & Usage Info:**

Soluble to 2 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.

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:

Ng *et al* (2002) Secretin as a neuropeptide. *Mol. Neurobiol.* **26** 97. PMID: 12392059.

Nussdorfer *et al* (2000) Secretin, glucagon, gastric inhibitor polypeptide, parathyroid hormone, and related peptides in the regulation of the hypothalamus-pituitary-adrenal axis. *Peptides* **21** 309. PMID: 10764961.

Sherwood *et al* (2000) The origin and function of the pituitary adenylate cyclase-activating polypeptide (PACAP)/Glucagon superfamily. *Endocrine Rev.* **21** 619. PMID: 11133067.

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