OLYMPUS PEPTIDE

TESAMORELIN

(GHRH Analog)

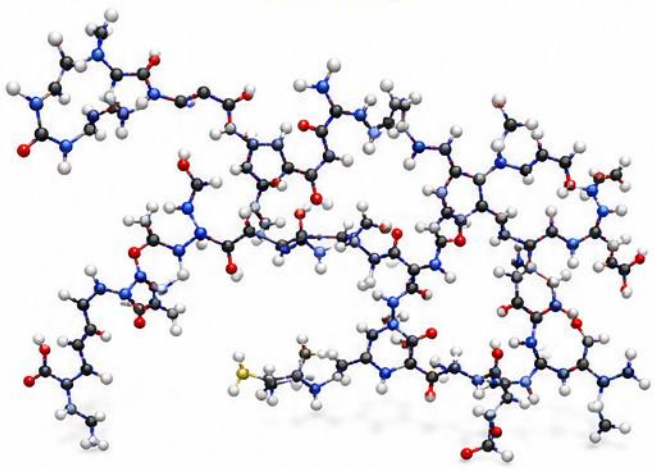
TECHNICAL INFORMATION SHEET

RESEARCH USE ONLY

PRODUCT NAME	Tesamorelin (GHRH Analog)
SYNONYMS	Tesamorelin; TH9507; GHRH(1–44) Analog
CAS NUMBER	218949-48-5
PEPTIDE CLASS	Growth hormone releasing hormone analog
PEPTIDE LENGTH	44 amino acids
APPEARANCE	White to off-white lyophilized powder
SOLUBILITY	Soluble in Water for Injection (WFI), bacteriostatic water, or sterile saline
STORAGE (LYOPHILIZED)	2–8°C short-term; –20°C or below for long-term. Protect from light and moisture.
STORAGE (AFTER RECONSTITUTION)	2–8°C. Avoid repeated freeze–thaw cycles.
MOLECULAR WEIGHT	4,976.74 g/mol
MOLECULAR FORMULA	$C_{226}H_{348}N_{64}O_{66}S$

ILLUSTRATIVE 3-D MOLECULAR VISUALIZATION

Illustrative 3-D molecular visualization of Tesamorelin (GHRH Analog).



Carbon Hydrogen Nitrogen Oxygen Sulfur

Illustrative 3-D molecular visualization of the Tesamorelin structure.

The model represents the chemical structure based on the amino acid sequence.

PEPTIDE BACKBONE SEQUENCE (ONE-LETTER CODE)

Sequence (44 amino acids)	Y A D D F T N P W L D F I S N V N C V N L A D G R G Y L L Y S L I T R Q R Y K E S K I Y K N L L Q

Note: This is the peptide backbone sequence (one-letter code).
No post-translational modifications are present in Tesamorelin.

COMPONENT SPECIFICATIONS

PARAMETER	SPECIFICATION
CAS Number	218949-48-5
Amino Acid Sequence (44 amino acids)	Tyr-Ala-Asp-Asp-Phe-Thr-Asn-Pro-Trp-Leu-Asp-Phe-Ile-Ser-Asn-Val-Asn-Cys-Val-Asn-Leu-Ala-Asp-Gly-Arg-Gly-Tyr-Leu-Leu-Tyr-Ser-Leu-Ile-Thr-Arg-Gln-Arg-Tyr-Lys-Glu-Ser-Lys-Ile-Tyr-Lys-Asn-Leu-Leu-Gln
One-Letter Sequence	Y A D D F T N P W L D F I S N V N C V N L A D G R G Y L L Y S L I T R Q R Y K E S K I Y K N L L Q
Molecular Formula	$C_{226}H_{348}N_{64}O_{66}S$
Molecular Weight	4,976.74 g/mol

MOLECULAR WEIGHT: 4,976.74 g/mol.
This value is the sum of the individual peptide molecular weights and is provided for reference only.
The compound is not a single chemical entity.

DESCRIPTION

Tesamorelin is a synthetic analog of growth hormone releasing hormone (GHRH) consisting of the first 44 amino acids of human GHRH.

It stimulates the pituitary gland to increase the secretion of growth hormone (GH), which may support growth hormone production, recovery, body composition, and overall well-being.

This peptide is supplied as a lyophilized powder for research use only.

KEY CHARACTERISTICS

- Growth hormone releasing hormone analog
- Stimulates natural GH secretion
- Supports recovery, tissue repair, and body composition research
- Research peptide
- Supplied as a sterile lyophilized powder
- Highly water soluble
- Typically analyzed using HPLC and LC-MS
- Stable for long-term frozen storage when lyophilized

SCIENTIFIC NOTE

Tesamorelin is a research peptide and is not approved as a therapeutic drug by the FDA or Health Canada. All use is restricted to laboratory research.

The information provided is for reference purposes only and is not intended for human or veterinary use.