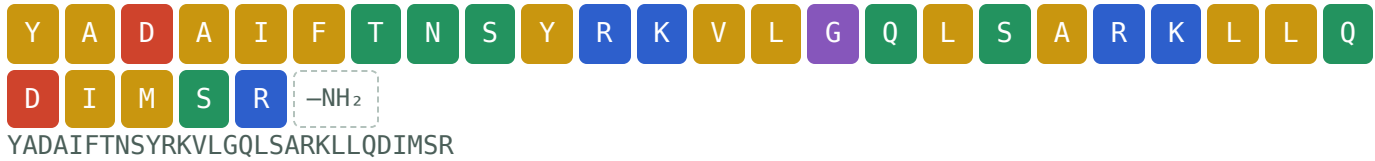


Sermorelin

Sermorelin is a synthetic peptide consisting of the first 29 amino acids of human growth hormone releasing hormone (GHRH). It was previously FDA-approved as Geref but has been discontinued in the US.



■ Hydrophobic
 ■ Acidic
 ■ Basic
 ■ Polar
 ■ Gly, Pro, Cys
 ■ Non-standard

Length	29 residues
Formula	C ₁₄₉ H ₂₄₆ N ₄₄ O ₄₂ S
Average mass	3,357.88 g/mol
Monoisotopic mass	3,355.8187 Da
Evidence	Approved drug
US status	Previously FDA-approved (Geref); discontinued in the US
WADA	Prohibited (S2)

GHRH(1-29) amide.

Expected ions (monoisotopic)

[M+H] ⁺	[M+2H] ²⁺	[M+3H] ³⁺	[M+4H] ⁴⁺
3,356.8260	1,678.9166	1,119.6135	839.9620

What the COA should show

A COA should confirm identity by mass spectrometry, with the observed mass matching the expected mass for GHRH(1-29) amide shown on this page, and report purity by reverse-phase HPLC. As a natural 29-residue sequence, sermorelin is prone to methionine oxidation (+16 Da), asparagine deamidation (+1 Da), and the des-Tyr-Ala (3–29) fragment produced by dipeptidyl peptidase-type cleavage; a well-resolved HPLC method should separate these. Confirm the C-terminal amide rather than the free acid. Because modified GRF(1-29) has a similar length but a different mass, MS also guards against substitution. Counter-ion and net peptide content should be reported.

Storage and stability

Store lyophilized sermorelin sealed at -20 °C, protected from light and moisture. The unmodified sequence is more labile than its stabilized analogues: methionine oxidation and asparagine deamidation proceed in solution, especially at higher pH and temperature. Reconstituted laboratory solutions should be refrigerated, used within a short period, aliquoted to avoid repeated freeze-thaw cycles, and protected from light. Use low-binding tubes, since GHRH peptides can adsorb to surfaces at low concentration.

Full entry, references and latest research: <https://peptidewiki.net/compounds/sermorelin/>
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