

GHRP-2

GHRP-2 (pralmorelin) is a synthetic hexapeptide that stimulates growth hormone release by activating the ghrelin receptor. It has been studied in human endocrine testing and is not approved by the FDA.



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

Length	6 residues
Formula	C ₄₅ H ₅₅ N ₉ O ₆
Average mass	817.97 g/mol
Monoisotopic mass	817.4275 Da
Evidence	Early clinical studies
US status	Not FDA-approved for any use
WADA	Prohibited (S2)

Hexapeptide amide (pralmorelin) with D-Ala, D-2-naphthylalanine and D-Phe.

Expected ions (monoisotopic)

[M+H] ⁺	[M+2H] ²⁺	[M+3H] ³⁺	[M+4H] ⁴⁺
818.4348	409.7210	273.4831	205.3642

What the COA should show

A certificate of analysis should confirm identity by mass spectrometry against the expected mass shown on this page and report reverse-phase HPLC purity with the chromatogram. The tryptophan residue can oxidize (+16 Da), and this should be monitored. Because three residues are D-amino acids, epimerized impurities with the same mass can be present and require a well-resolved or chiral HPLC method to detect. The counter-ion and net peptide content should be reported.

Storage and stability

Store lyophilized GHRP-2 sealed at -20 °C or colder, protected from light and moisture; the tryptophan residue makes it sensitive to photo-oxidation. Allow vials to reach room temperature before opening. Solutions for lab use should be prepared in sterile water or buffer, kept refrigerated for short-term work, aliquoted for longer storage at -20 °C or below, and protected from repeated freeze-thaw cycles.

Full entry, references and latest research: <https://peptidewiki.net/compounds/ghrp-2/>
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