

GHRP-6

GHRP-6 is a synthetic hexapeptide that stimulates growth hormone release by activating the ghrelin receptor (GHS-R1a). It was one of the first growth hormone secretagogues and is not approved for any use.



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

Length	6 residues
Formula	$C_{46}H_{56}N_{12}O_6$
Average mass	873.01 g/mol
Monoisotopic mass	872.4446 Da
Evidence	Early clinical studies
US status	Not FDA-approved for any use
WADA	Prohibited (S2)

Hexapeptide amide containing D-Trp and D-Phe.

Expected ions (monoisotopic)

$[M+H]^+$	$[M+2H]^{2+}$	$[M+3H]^{3+}$	$[M+4H]^{4+}$
873.4519	437.2296	291.8221	219.1184

What the COA should show

A COA should confirm identity by mass spectrometry, with the observed mass matching the expected mass shown on this page, and report purity by reverse-phase HPLC. The two tryptophan residues are the main stability concern: oxidized species (+16 and +32 Da, and kynurenine-type products) should be monitored. Because activity depends on the D-configured residues, stereochemical purity matters, and diastereomer impurities may co-elute on generic gradients. Confirm the C-terminal amide. Counter-ion (acetate or TFA) and net peptide content should be stated.

Storage and stability

Store lyophilized GHRP-6 sealed at -20 °C, protected from light and moisture. The two tryptophan residues make it more sensitive to photo-oxidation than many short peptides, so amber vials or foil wrapping are advisable. Reconstituted laboratory solutions should be refrigerated, protected from light, used promptly and aliquoted to avoid repeated freeze-thaw cycles.

Full entry, references and latest research: <https://peptidewiki.net/compounds/ghrp-6/>
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