

AOD-9604

AOD-9604 is a synthetic peptide based on the C-terminal region of human growth hormone, with an added N-terminal tyrosine. It was studied as an anti-obesity agent, but clinical development was discontinued.



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

Length	16 residues
Formula	$C_{78}H_{123}N_{23}O_{23}S_2$
Average mass	1,815.08 g/mol
Monoisotopic mass	1,813.8604 Da
Evidence	Early clinical studies
US status	Not FDA-approved for any use
WADA	Check the current Prohibited List

Tyr plus hGH(177–191); one disulfide bond.

Expected ions (monoisotopic)

$[M+H]^+$	$[M+2H]^{2+}$	$[M+3H]^{3+}$	$[M+4H]^{4+}$
1,814.8676	907.9375	605.6274	454.4724

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 cysteines should be present as an intramolecular disulfide: the reduced form differs by 2 Da, and disulfide-linked dimers or oligomers can form during synthesis or storage. Because the peptide is often confused with hGH fragment 176-191, the stated sequence and observed mass should be checked against each other. Methionine oxidation and deletion impurities should also be monitored. Counter-ion and net peptide content should be stated.

Storage and stability

Store lyophilized AOD-9604 sealed at -20 °C, protected from light and moisture. The disulfide bond can undergo scrambling or reduction in solution, especially at neutral to alkaline pH or in the presence of reducing agents, so avoid thiol-containing buffers. Reconstituted laboratory solutions should be refrigerated, used promptly and aliquoted to avoid repeated freeze-thaw cycles.

Full entry, references and latest research: <https://peptidewiki.net/compounds/aod-9604/>
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