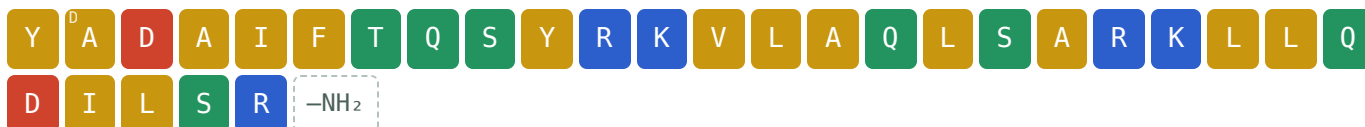


CJC-1295

CJC-1295 is a synthetic analogue of growth hormone releasing hormone (GHRH). The name properly refers to a version with a drug affinity complex (DAC) that binds albumin, but is also applied to modified GRF(1-29), which lacks DAC.



Y-dA-D-A-I-F-T-Q-S-Y-R-K-V-L-A-Q-L-S-A-R-K-L-L-Q-D-I-L-S-R

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

Length	29 residues
Formula	C ₁₅₂ H ₂₅₂ N ₄₄ O ₄₂
Average mass	3,367.90 g/mol
Monoisotopic mass	3,365.8936 Da
Evidence	Early clinical studies
US status	Not FDA-approved for any use
WADA	Prohibited (S2)

Shown: modified GRF(1-29), sold as 'CJC-1295 without DAC' (D-Ala2, Gln8, Ala15, Leu27). The DAC version adds a C-terminal lysine carrying a maleimidopropionyl linker (about 3647 g/mol).

Expected ions (monoisotopic)

[M+H] ⁺	[M+2H] ²⁺	[M+3H] ³⁺	[M+4H] ⁴⁺
3,366.9009	1,683.9541	1,122.9718	842.4807

What the COA should show

The first question for any COA is which compound it describes. Mass spectrometry must distinguish CJC-1295 with DAC from modified GRF(1-29): the observed mass should match the expected mass for the specific form shown on this page, and the large difference between the two makes mislabeling detectable. For the DAC form, the maleimide group is reactive, so hydrolyzed or adducted species should be checked. For both forms, HPLC purity should be reported, and methionine oxidation (+16 Da), deamidation (+1 Da) and deletion sequences are common impurities in a 29- to 30-residue synthetic peptide. Counter-ion and net peptide content should be stated.

Storage and stability

Store lyophilized material sealed at -20 °C or below, protected from light and moisture. The DAC form contains a maleimide group that can hydrolyze in aqueous solution and react with thiols, so it should be kept dry and reconstituted only immediately before laboratory use; avoid buffers containing reducing agents or free thiols. Modified GRF(1-29) is more stable than native GHRH but still contains methionine and is prone to oxidation and aggregation in solution. Aliquot to avoid repeated freeze-thaw cycles.

Full entry, references and latest research: <https://peptidewiki.net/compounds/cjc-1295/>
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