

Follistatin-344

Follistatin-344 is a glycoprotein isoform of follistatin, a protein that binds and neutralizes activin, myostatin and related growth factors. It is a full-size protein of about 344 residues, not a short peptide, and is not approved for any use.

Evidence	Early clinical studies
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US status	Not FDA-approved for any use
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WADA	Prohibited (S4)
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Glycoprotein of about 344 residues; a protein rather than a short peptide.

What the COA should show

Because follistatin is a recombinant glycoprotein, standard short-peptide analysis is not sufficient. A certificate of analysis should state the expression system and exact construct, since the 344-residue designation refers to the precursor while the secreted mature protein is shorter. Identity should be confirmed by intact mass analysis, which will be broadened by glycosylation, and by peptide mapping or sequencing. SDS-PAGE and size-exclusion chromatography should show purity and absence of aggregates. Correct disulfide formation and biological activity, such as activin-binding or neutralization assays, are key quality indicators. Endotoxin testing is important for proteins expressed in bacteria. The site's computed mass from sequence does not account for glycans.

Storage and stability

Recombinant follistatin is typically supplied lyophilized, often with carrier protein or stabilizing excipients, and should be stored at -20 °C to -80 °C as specified by the manufacturer. Reconstituted protein is prone to aggregation and adsorption to surfaces, so it should be dissolved gently without vortexing, often in buffer with carrier protein for lab use, aliquoted, stored frozen, and protected from repeated freeze-thaw cycles. Stability depends strongly on formulation, so manufacturer data should take precedence.

Full entry, references and latest research: <https://peptidewiki.net/compounds/follistatin-344/>
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