
Product Data Sheet

Product Name: FST Human
Cat. No.: GP20267
Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	FST; FS		
Amino Acid Sequence	The sequence of the first five N-terminal amino acids was determined and was found to be Gly-Asn-Cys-Trp-Leu.		
Solubility	It is recommended to reconstitute the lyophilized Follistatin in sterile 18MΩ-cm H ₂ O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	Lyophilized from a concentrated (1mg/ml) solution containing no additives.		

Introduction

Follistatin is a single-chain gonadal protein that specifically inhibits follicle-stimulating hormone release. The single FST gene encodes two isoforms, FST317 and FST344 containing 317 and 344 amino acids respectively, resulting from alternative splicing of the precursor mRNA. In a study in which 37 candidate genes were tested for linkage and association with polycystic ovary syndrome (PCOS) or hyperandrogenemia in 150 families, evidence was found for linkage between PCOS and follistatin. Follistatin functions as an ACTV antagonist. specific inhibitor of the biosynthesis and secretion of pituitary follicle stimulating hormone (fsh).

Biological Activity

The activity is determined by the ability to neutralize ACTV inhibitory effect of mouse MPC-11 cells. The expected ED₅₀ is 100-400ng/ml, corresponding to a Specific Activity of 2,500-10,000units/mg in the presence of 7.5ng/ml ACTV A.

Stability

Caution: Product has not been fully validated for medical applications. For research use only.

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Lyophilized Follistatin although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution FST should be stored at 4°C between 2-7 days and for future use below -18°C . For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Background

Follistatin Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 288 amino acids and having a total molecular mass of 31.5kDa. The FST is purified by proprietary chromatographic techniques.

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