



RayBiotech, Inc.

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Certificate of Analysis and Data Sheet Recombinant Human Follistatin

Catalog No.
228-10498

Source:
E.Coli

Synonyms

FST, FS, Activin-binding protein

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 binds directly to activin and functions as an activin antagonist, specific inhibitor of the biosynthesis and secretion of pituitary follicle stimulating hormone (FSH).

Description

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.

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation

Lyophilized from a concentrated (1mg/ml) solution containing no additives

Solubility

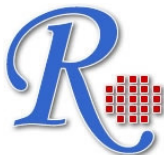
It is recommended to reconstitute the lyophilized Follistatin in sterile 18MΩ-cm H₂O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.

Stability

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 avoid freeze-thaw cycles.

**The products are furnished for LABORATORY RESEARCH USE ONLY.
Not for diagnostic or therapeutic use.**



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Purity

Greater than 95.0% as determined by:

- 1) Analysis by RP-HPLC
- 2) Analysis by SDS-PAGE

Biological Activity

The activity is determined by the ability to neutralize Activin A inhibitory effect of mouse MPC-11 cells. The expected ED50 is 0.1-0.4 µg/ml in the presence of 7.5 ng/ml Activin A.

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