
Product Data Sheet

Product Name: FST Mouse
 Cat. No.: GP20269
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Follistatin; FST; FS; Activin-binding protein; AL033346.		
Amino Acid Sequence	MGNCWLRQAK NGRCQVLTKT ELSKEECCST GRLSTSWTEE DVNDNTLFWK MIFNGGAPNC IPCKETCENV DCGPGKKCRM NKKNKPRCVC APDCSNITWK GPVCGLDGKT YRNECALLKA RCKEQPELEV QYQGRCKKTC RDVFCPGSST CVVDQTNNAY CVTCNRICPE PASSEQYLCG NDGVTYSSAC HLRKATCLLG RSIGLAYEGK CIKAKSCEDI QCTGGKKCLW DS.		
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	The Mouse Follistatin is lyophilized from 10mM Na ₂ PO ₄ and 50mM NaCl, pH 7.5.		

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).

Biological Activity

The ED₅₀, determined by the dose-dependent neutralization of 7.5ng/ml human Activin-A on MCP-11 cells, is 0.13-0.19μg/ml.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

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 prevent freeze-thaw cycles.

Background

Follistatin Mouse Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 289 amino acids and having a total molecular mass of 31.6kDa. The FST is purified by proprietary chromatographic techniques.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA