

GFM24 Recombinant Mouse Follistatin

Description

Follistatin is an autocrine, activin-binding protein that is ubiquitously expressed with highest expression levels being in the ovary and skin. Follistatin negatively regulates the signaling of Transforming Growth Factor β (TGF- β) family members, such as activin, bone morphogenic proteins (BMP), myostatin, Growth Differentiation Factor 11 (GDF-11), and TGF- β 1. Follistatin functions as an antagonist by binding TGF- β family members to block interaction with their signaling receptors. Follistatin also inhibits the secretion of Follicle-Stimulating Hormone (FSH) from the anterior pituitary.

Length	289 aa
Molecular Weight	31.7 kDa
Source	E. coli
Accession Number	P19883
Purity	\geq 95% determined by reducing and non-reducing SDS-PAGE

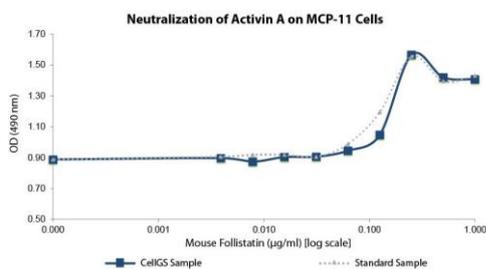
Specifications

Alternative Names	FS, activin-binding protein, FSH-suppressing protein, FSP
Biological Activity	Mouse Follistatin is fully biologically active when compared to standard. The activity is determined by the neutralization of Activin A.
Endotoxin Level	\leq 1.00 EU/ μ g as measured by kinetic LAL
Formulation	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium phosphate, 50 mM sodium chloride, pH 7.5
AA Sequence	<p>MGNCWLRQAK NGRCQVLYKT ELSKEECCST GRLSTSWTEE DVNDNTLFWK MIFNGGAPNC</p> <p>IPCKETCENV DCGPGKRCRM NKKNKPRVC APDCSNITWK GPVCGLDGKT YRNECALLKA</p> <p>RCKEQPELEV QYQGRCKKTC RDVFCPGSST CVVDQTNNAY CVTCNRICPE PASSEQYLCG</p> <p>NDGVTYSSAC HLRKATCLLG RSLGLAYEGK CIKAKSCEDI QCTGGKKCLW DF</p>

Preparation and Storage

Reconstitution	Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at 0.1 mg/ml, which can be further diluted into other aqueous solutions.
Stability and Storage	<p>12 months from date of receipt when stored at -20°C to -80°C as supplied.</p> <p>1 month when stored at 4°C after reconstituting as directed.</p> <p>3 months when stored at -20°C to -80°C after reconstituting as directed.</p>

Data



Neutralization of Activin A induced cytotoxicity of MPC-11 cells assay for Mouse Follistatin. Cell proliferation was measured to calculate the ED50.