Recombinant Human Follistatin/FST Protein (His Tag)

Catalog No. PKSH031488

Note: Centrifuge before opening to ensure complete recovery of vial contents.

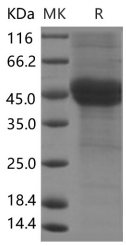
Description

Synonyms	FS
Species	Human
Expression Host	HEK293 Cells
Sequence	Met 1-Asp329
Accession	NP_037541.1
Calculated Molecular Weight	34.4 kDa
Tag	C-His
Bioactivity	Measured by its ability to neutralize Activin-mediated inhibition on MPC11 cell proliferation. The ED50 for this effect is typically 5-40ng/mL.

Properties

Purity	> 85 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile PBS, pH 7.4 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 85 % as determined by reducing SDS-PAGE.

Background

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 are expressed and subserve local regulatory roles in numerous extragonadal tissues; including brain; adrenal; bone marrow; and placenta but perhaps most notably in anterior pituitary-the classical target tissue for inhibin; the activin-follistatin system may play a key role in early embryogenesis. Follistatin binds directly to activin and functions as an activin antagonist. Specific inhibitor of the biosynthesis and secretion of pituitary follicle stimulating hormone follistatin is a binding protein to activin. Since activin binds to follistatin; it is imperative to determine the nature of the activin/follistatin binding complex.

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