

FSTL3 active protein

FSTL3 Protein, Mouse, Recombinant (His Tag)

CATALOG #
AAA258117

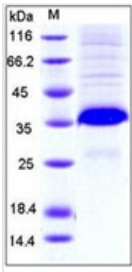
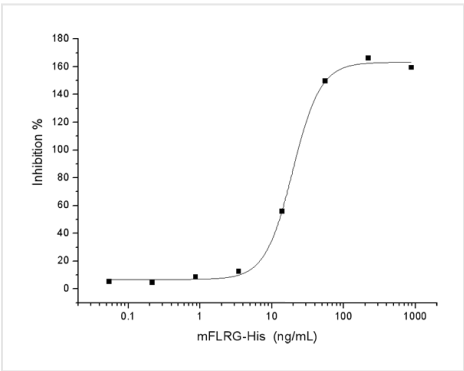
HOST
HEK293 Cells

PRODUCT SYNONYMS

FSTL3; FSTL3 Protein; Mouse; Recombinant (His Tag); Mouse FLRG/Fstl3 Protein (His Tag); E030038F23Rik Protein; Flrg Protein; follistatin-like 3 (secreted glycoprotein); FSTL3 active protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>85% as determined by SDS-PAGE
Form/Format	Lyophilized from sterile PBS, pH7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hard copy of CoA.
Sequence	Met1-Val25 6
Species	Mouse
Endotoxin	<1.0EU per ug of the protein as determined by the LAL method
Predicted N Terminal	Val 24
Tag	C-His
Protein Construction	A DNA sequence encoding the mouse FLRG (NP_113557.1)(Met 1-Val 256) was fused with a polyhistidine tag at the C-terminus.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.
Activity	1. Measured by its binding ability in a functional ELISA. Immobilized mouse FLRG-His at 10ug/ml (100uL/well) can bind biotinylated human INHBA-His with a linear range of 6.25-50ng/mL. 2. Measured by its binding ability in a functional ELISA. Immobilized mouse FLRG-His at 10ug/ml (100uL/well) can bind biotinylated mouse INHBA-His with a linear range of 6.25-50ng/mL. 3. Measured by its ability to neutralize Activin-mediated inhibition on MPC11 cell proliferation. The ED50 for this effect is typically 5-25ng/mL in the presence of 10ng/mL rhActivin A.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice.



SDS-PAGE

Application Data
Measured by its ability to neutralize Activin-mediated inhibition on MPC11 cell proliferation.
The ED50 for this effect is typically 5-25 ng/mL in the presence of 10 ng/mL rhActivin A.

ADDITIONAL INFORMATION

Related Product Information for FSTL3 active protein

Background: Follistatin-like 3 (FLRG/Fstl3) is a secreted glycoprotein of the follistatin-module-protein family. It may have a role in leukemogenesis. FLRG/Fstl3 is a recently described member of the FST family having an overall structure and activity profile similar to that of FST, including binding and neutralization of activin. FLRG/Fstl3 is expressed in a wide range of adult tissues, not detected in hematopoietic cells except in patients with a B cell chronic leukemia and a translocation. Isoform 1 or the secreted form is a binding and antagonizing protein for members of the TGF-beta family, such as activin, BMP2 and MSTN. Inhibits activin A-, activin B-, BMP2- and MSDT-induced cellular signaling; more effective on activin A than on activin B. Involved in bone formation; inhibits osteoclast differentiation. Involved in hematopoiesis; involved in differentiation of hemopoietic progenitor cells, increases hematopoietic cell adhesion to fibronectin and seems to contribute to the adhesion of hematopoietic precursor cells to the bone marrow stroma. Isoform 2 of FLRG/Fstl3 or the nuclear form of FLRG/Fstl3 is probably involved in transcriptional regulation via interaction with MLLT10. Modulation of activin and other TGFbeta superfamily signaling is the primary mechanism of action for both follistatin (FS) and FS-like 3 (FSTL-3). FLRG/Fstl3 is likely to be a local regulator of activin action in gonadal development and gametogenesis and, further, that activin appears to have important actions in gonadal development and function that are critical for normal reproduction.

References

Sidis Y, et al. (2006) Biological activity of follistatin isoforms and follistatin-like-3 is dependent on differential cell surface binding and specificity for activin, myostatin, and bone morphogenetic proteins. *Endocrinology*. 147(7): 3586-97. Schneyer A, et al. (2003) Differential binding and neutralization of activins A and B by follistatin and follistatin like-3 (FSTL-3/FSRP/FLRG). *Endocrinology*. 144(5): 1671-4. Xia Y, et al. (2004) Overexpression of follistatin-like 3 in gonads causes defects in gonadal development and function in transgenic mice. *Mol Endocrinol*. 18(4): 979-94.

NCBI AND UNIPROT INFORMATION

NCBI GI #	13878203
NCBI GeneID	83554
NCBI Accession #	NP_113557.1
NCBI GenBank Nucleotide #	NM_031380.2
UniProt Accession #	Q9EQC7
Molecular Weight	27,271 Da
NCBI Official Full Name	follistatin-related protein 3
NCBI Official Synonym Full Names	follistatin-like 3
NCBI Official Symbol	Fstl3
NCBI Official Synonym Symbols	Flrg; E030038F23Rik

NCBI Protein Information	follistatin-related protein 3
UniProt Protein Name	Follistatin-related protein 3
UniProt Gene Name	Fstl3
UniProt Synonym Gene Names	Flrg

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/hek293-active-protein/fstl3/258117>