

Recombinant Mouse FSTL3 Protein

Catalog No.: RP03254

Sequence Information

Species	Gene ID
Mouse	83554
Swiss Prot	Tags
Q9EQC7	C-His

Synonyms

Follistatin-like protein 3; FLRG;
Follistatin-like 3; FSTL3

Product Information

Source	Purification
HEK293 cells	≥ 95 % as determined by Tris-Bis PAGE; ≥ 95 % as determined by HPLC.

Calculated MW Observed MW

26 kDa 35–40 kDa

Endotoxin

< 1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1–0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

Follistatin-like 3 (FSTL3) is a novel cytokine that regulates insulin sensitivity and counteracts activin/myostatin signalling. In the present study, regulation of FSTL3 in renal dysfunction was investigated in both human chronic kidney disease (CKD) and acute kidney dysfunction (AKD). Furthermore, mFSTL3 expression was analysed in insulin-sensitive tissues in a mouse model of CKD.

Basic Information

Description

Recombinant Mouse FSTL3 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Val24–Val256) of Mouse FSTL3 (Accession #Q9EQC7) fused with His tag at the C-terminus.

Activity

1. Immobilized Human Activin A, No Tag at 0.2 μg/mL (100 μL/well) on the plate. Dose response curve for Mouse FSTL3, His Tag with the EC₅₀ of 18.0 ng/mL determined by ELISA.
2. Mouse FSTL3, His Tag captured on CM5 Chip via anti-his antibody can bind Human Activin A, No tag with an affinity constant of 53.09 pM as determined in SPR assay (Biacore T200).
3. 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 7.5 ng/mL rhActivin A.

Shipping

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at –20°C

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

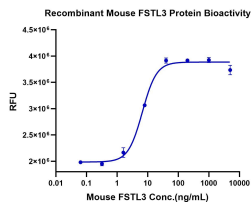
Contact

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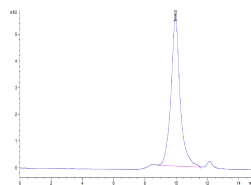
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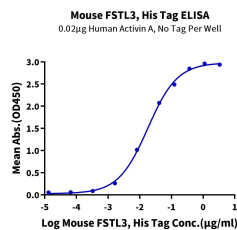
Validation Data



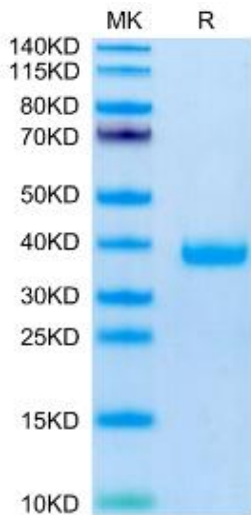
Measured by its ability to neutralize Activin-mediated inhibition on MPC11 cell proliferation. The ED₅₀ for this effect is typically 5-25 ng/mL in the presence of 7.5 ng/mL rhActivin A.



The purity of Mouse FSTL3 is greater than 95% as determined by SEC-HPLC.



Immobilized Human Activin A, No Tag at 0.2 μg/mL (100 μL/well) on the plate. Dose response curve for Mouse FSTL3, His Tag with the EC₅₀ of 18.0 ng/mL determined by ELISA.



Recombinant Mouse FSTL3 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.