

# Human FSTL3 Protein

Cat. No. FTS-HM1L3

## Description

<b>Source</b>	Recombinant Human FSTL3 Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Met27-Val263.
<b>Accession</b>	O95633-1
<b>Molecular Weight</b>	The protein has a predicted MW of 26.1 kDa. Due to glycosylation, the protein migrates to 35-40 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE

## Formulation and Storage

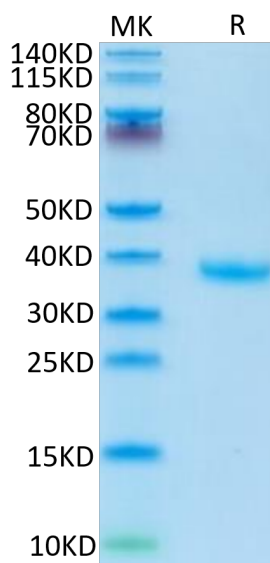
<b>Formulation</b>	Supplied as 0.22µm filtered solution in PBS (pH 7.4).
<b>Storage</b>	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## 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.

## Assay Data

### Bis-Tris PAGE



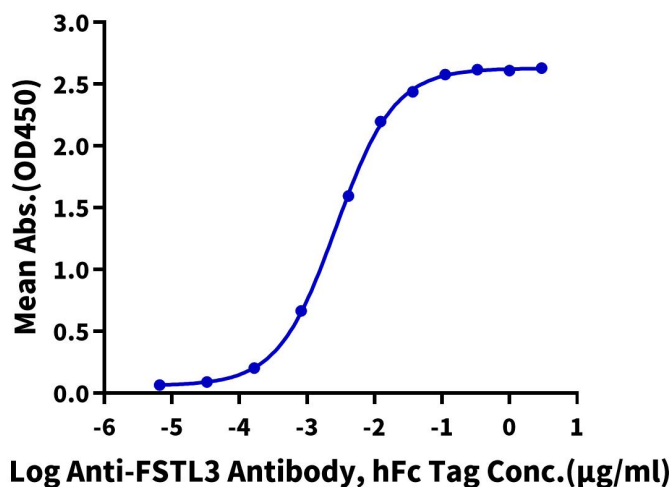
Human FSTL3 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### ELISA Data

Assay Data

**Human FSTL3, His Tag ELISA**

0.05µg Human FSTL3, His Tag Per Well

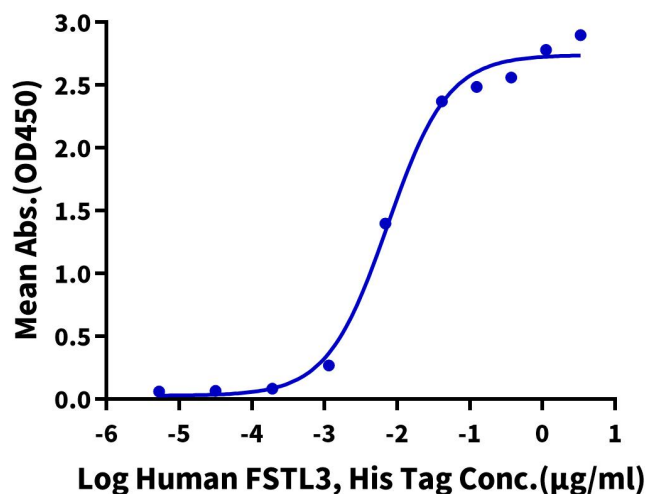


Immobilized Human FSTL3, His Tag at 0.5µg/ml (100µl/Well) on the plate. Dose response curve for Anti-FSTL3 Antibody, hFc Tag with the EC50 of 2.7ng/ml determined by ELISA (QC Test).

ELISA Data

**Human FSTL3, His Tag ELISA**

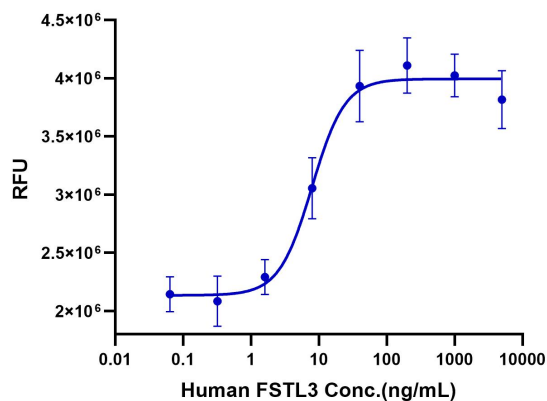
0.05µg Human Activin A, No Tag Per Well



Immobilized Human Activin A, No Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Human FSTL3, His Tag with the EC50 of 7.6ng/ml determined by ELISA.

Cell Based Assay

Recombinant Human FSTL3 Protein Bioactivity



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.