

# Mouse TNFSF15 Protein

Cat. No. FSF-MM215

## Description

<b>Source</b>	Recombinant Mouse TNFSF15 Protein is expressed from HEK293 with hFc tag at the N-Terminus. It contains Ala61-Leu252.
<b>Accession</b>	Q5UBV8
<b>Molecular Weight</b>	The protein has a predicted MW of 48.8 kDa. Due to glycosylation, the protein migrates to 55-65 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1EU per $\mu\text{g}$ by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

## Formulation and Storage

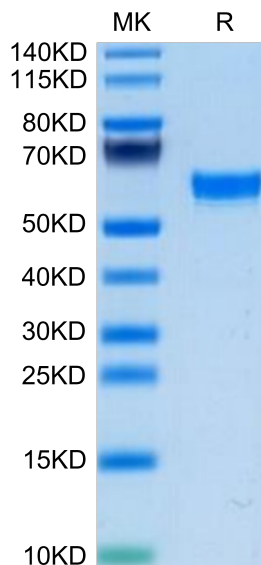
<b>Formulation</b>	Lyophilized from 0.22 $\mu\text{m}$ filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

TL1A and its functional receptor DR3 are members of the TNF/TNFR superfamilies of proteins. TL1A and DR3 are abundantly localized at inflamed intestinal areas of patients with IBD and mice with experimental ileitis or colitis and actively participate in the immunological pathways that underlie mucosal homeostasis and intestinal inflammation. Recently, an important role was demonstrated for TL1A/DR3 as potential mediators of intestinal fibrosis that is associated with the presence of gut inflammation.

## Assay Data

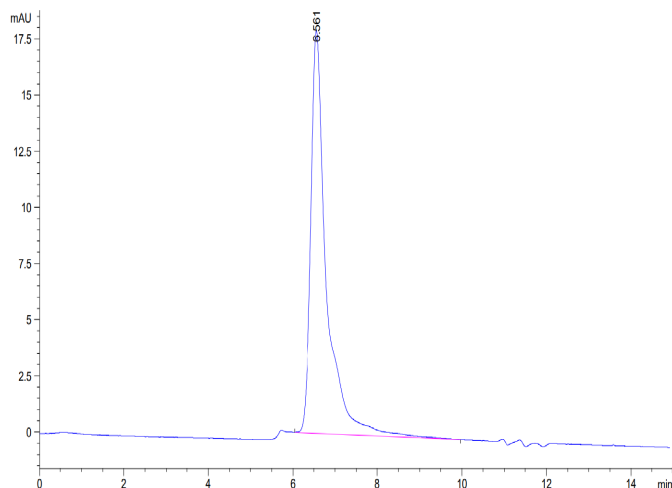
### Bis-Tris PAGE



Mouse TNFSF15 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC

Assay Data

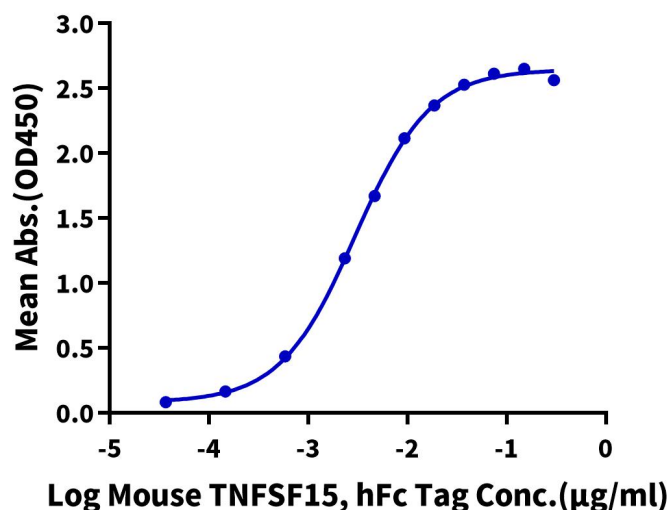


The purity of Mouse TNFSF15 is greater than 95% as determined by SEC-HPLC.

ELISA Data

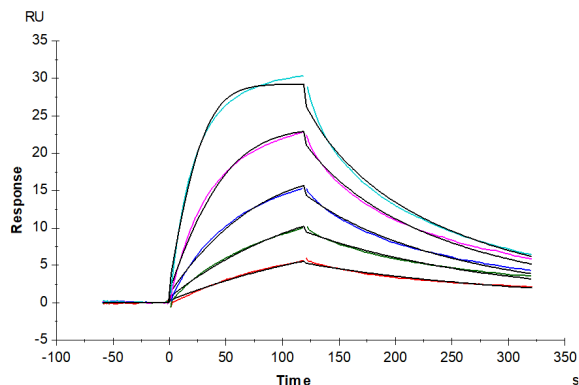
**Mouse TNFSF15, hFc Tag ELISA**

0.1µg Mouse DR3, His Tag Per Well



Immobilized Mouse DR3, His Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Mouse TNFSF15, hFc Tag with the EC50 of 3.0ng/ml determined by ELISA (QC Test)..

SPR Data



Mouse TNFSF15, hFc Tag captured on CM5 Chip via Protein A can bind Mouse DR3, His Tag with an affinity constant of 4.56 nM as determined in SPR assay (Biacore T200).