

## Mouse TNFSF15 Protein (active trimer)

Cat. No. FSF-MM415

KACATUS

### Description

Source	Recombinant Mouse TNFSF15 Protein is expressed from HEK293 with His tag and Avi tag at the N-Terminus. It contains Ala61-Leu252.
Accession	Q5UBV8
Molecular Weight	The protein has a predicted MW of 24.40 kDa. Due to glycosylation, the protein migrates to 30-38 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

### Formulation and Storage

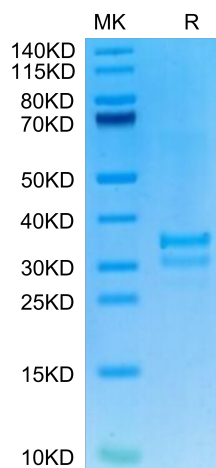
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months 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.

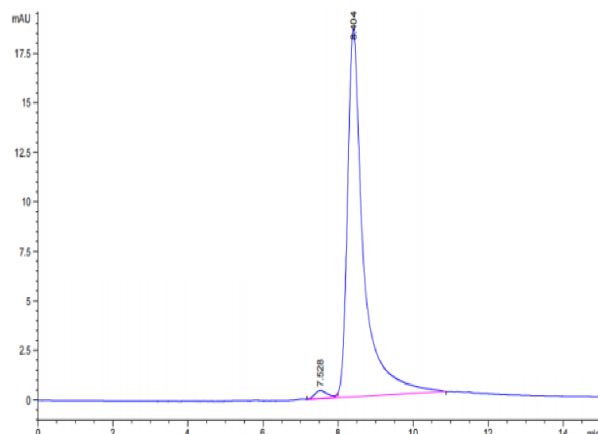
### Assay Data

#### Bis-Tris PAGE



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

#### SEC-HPLC



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

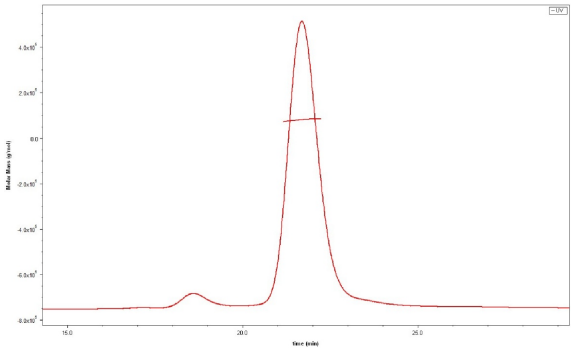
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Assay Data

SEC-MALS

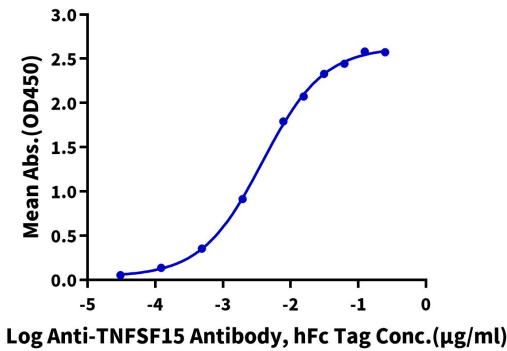


The purity of Mouse TNFSF15 is greater than 95% and the molecular weight of this protein is around 70-95 kDa as determined by SEC-MALS.

ELISA Data

Mouse TNFSF15, His Tag ELISA

0.1µg Mouse TNFSF15, His Tag Per Well

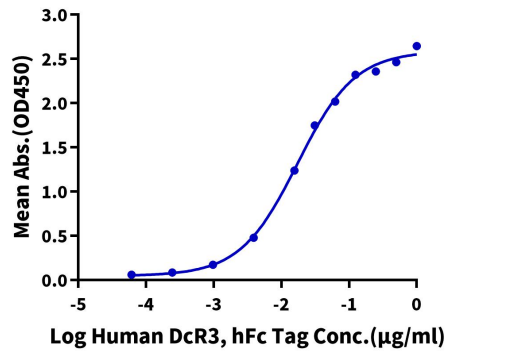


Immobilized Mouse TNFSF15, His Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Anti-TNFSF15 Antibody, hFc Tag with the EC50 of 3.8ng/ml determined by ELISA (QC Test).

ELISA Data

Mouse TNFSF15, His Tag ELISA

0.1µg Mouse TNFSF15, His Tag Per Well



Immobilized Mouse TNFSF15, His Tag at 1µg/ml(100µl/well) on the plate. Dose response curve for Human DcR3, hFc Tag with the EC50 of 17.3ng/ml determined by ELISA.

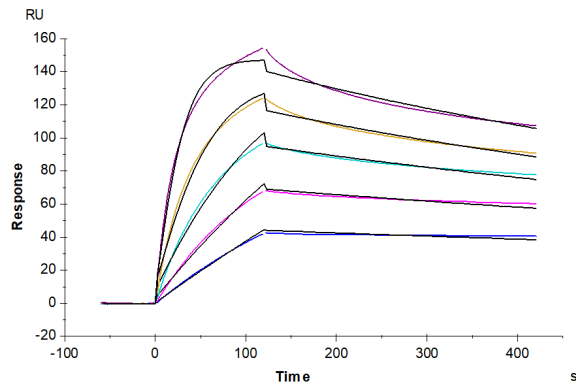
SPR Data

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### Assay Data



Mouse DR3, His Tag immobilized on CM5 Chip can bind Mouse TNFSF15, His Tag with an affinity constant of 0.96 nM as determined in SPR assay (Biacore T200).