

Human TNFSF15 Protein (active trimer)



Cat. No. FSF-HM115

Description	
Source	Recombinant Human TNFSF15 Protein is expressed from HEK293 with His tag at the N-Terminus. It contains Leu72-Leu251.
Accession	O95150-1
Molecular Weight	The protein has a predicted MW of 21.57 kDa. Due to glycosylation, the protein migrates to 25-35 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per µg by the LAL method.
Purity	> 90% as determined by Bis-Tris PAGE

Formulation and Storage	
Formulation	Lyophilized from 0.22 µm filtered solution in 20 mM 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

TNF superfamily member 15 (TNFSF15), a cytokine largely produced by vascular endothelial cells and a specific inhibitor of the proliferation of these same cells, can inhibit VEGF-induced vascular permeability in vitro and in vivo, and that death receptor 3 (DR3), a cell surface receptor of TNFSF15, mediates TNFSF15-induced dephosphorylation of VEGFR2.

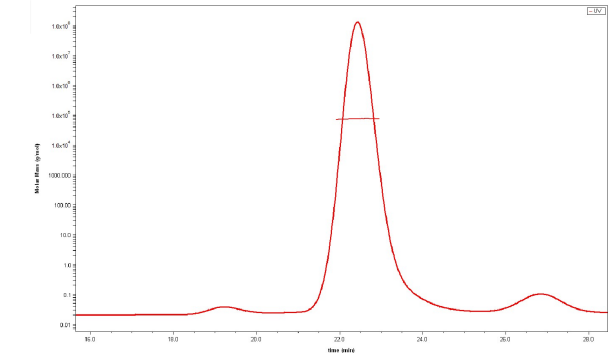
Assay Data

Bis-Tris PAGE



Human TNFSF15 on Bis-Tris PAGE under reduced condition. The purity is greater than 90%.

SEC-MALS



The purity of Human TNFSF15 is greater than 85% and the molecular weight of this protein is around 60-90 kDa as determined by SEC-MALS.

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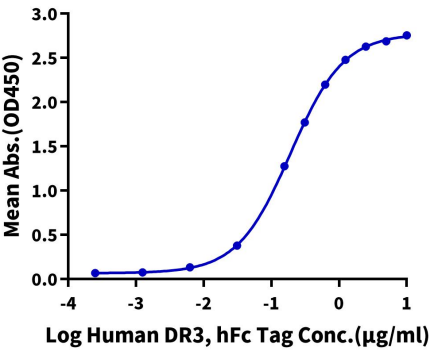


Assay Data

ELISA Data

Human TNFSF15, His Tag ELISA

0.5µg Human TNFSF15, His Tag Per Well

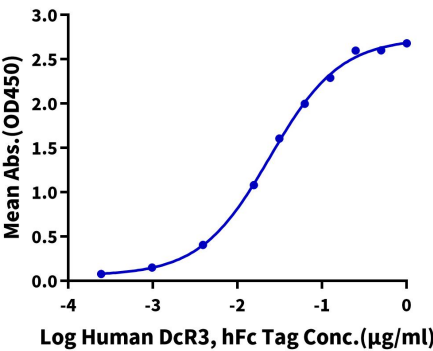


Immobilized Human TNFSF15, His Tag at 5µg/ml (100µl/well) on the plate. Dose response curve for Human DR3, hFc Tag with the EC50 of 0.19µg/ml determined by ELISA.

ELISA Data

Human TNFSF15, His Tag ELISA

0.1µg Human TNFSF15, His Tag Per Well

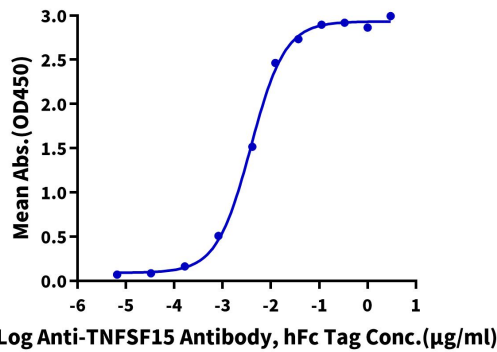


Immobilized Human TNFSF15, His Tag at 1µg/ml(100µl/well) on the plate. Dose response curve for Human DcR3, hFc Tag with the EC50 of 24.2ng/ml determined by ELISA.

ELISA Data

Human TNFSF15, His Tag ELISA

0.1µg Human TNFSF15, His Tag Per Well



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

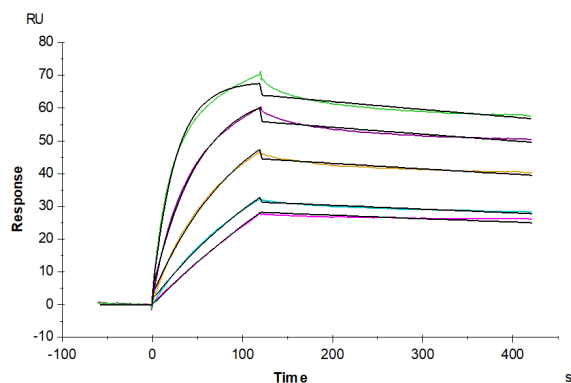
SPR Data

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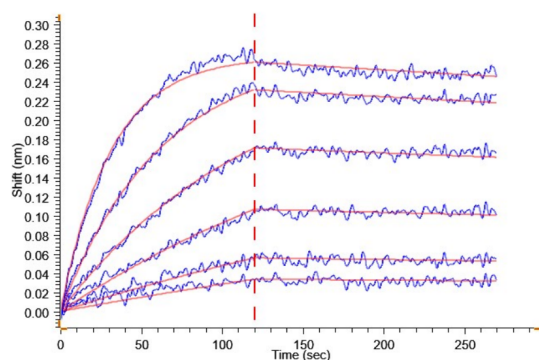


Assay Data



Human DR3, hFc Tag captured on CM5 Chip via Protein A can bind Human TNFSF15, His Tag with an affinity constant of 4.09 nM as determined in SPR assay (Biacore T200).

BLI Data



Loaded Human DR3, hFc Tag on ProA-Biosensor, can bind Human TNFSF15, His Tag with an affinity constant of 5.04 nM as determined in BLI assay (Gator).