



Synonym

TL1A, VEGI, TNFSF15

Source

Human TL1A, His Tag(TLA-H5243) is expressed from human 293 cells (HEK293). It contains AA Leu 72- Leu 251 (Accession # [O95150-1](#)).

Predicted N-terminus: His

Molecular Characterization

Poly-his TL1A(Leu 72- Leu 251)
O95150-1

This protein carries a polyhistidine tag at the N-terminus.

The protein has a calculated MW of 22.4 kDa. The protein migrates as 26 kDa and 28-30 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per µg by the LAL method.

Purity

>90% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

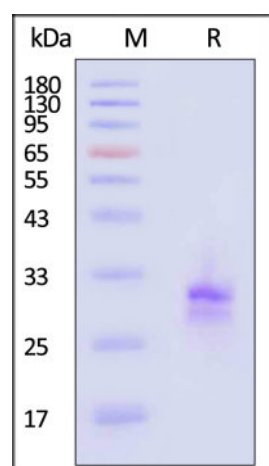
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

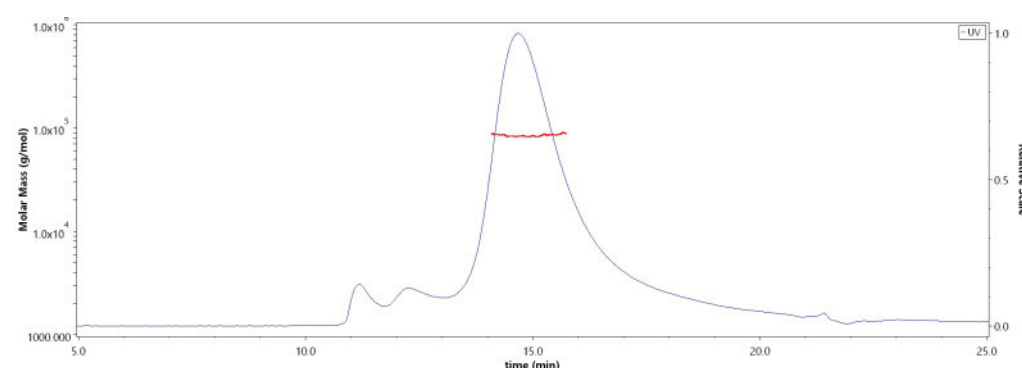
SDS-PAGE



Human TL1A, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

Bioactivity-ELISA

SEC-MALS

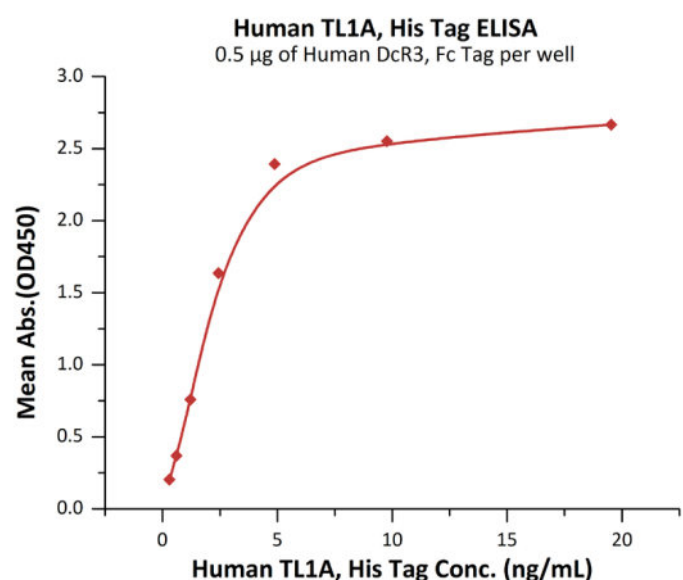


The purity of Human TL1A, His Tag (Cat. No. TLA-H5243) is more than 85% and the molecular weight of this protein is around 70-90 kDa verified by SEC-MALS.

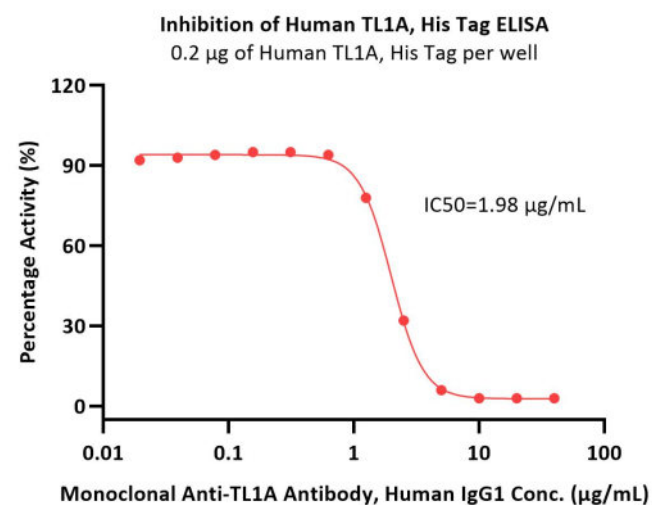
[Report](#)

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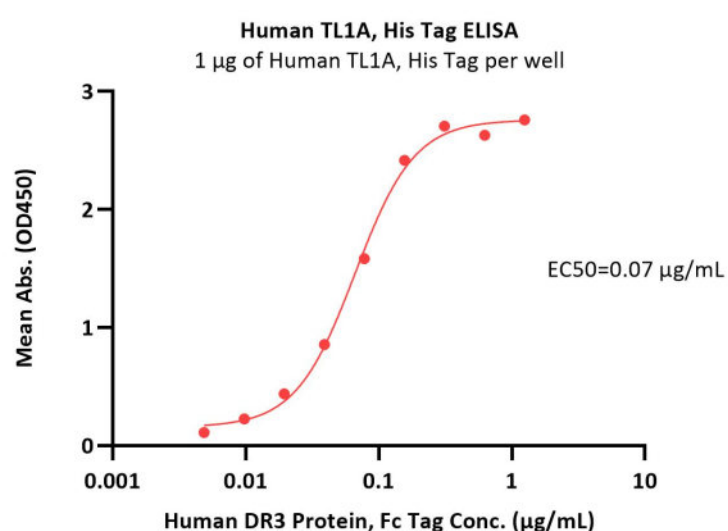




Immobilized Human DcR3, Fc Tag (Cat. No. TNB-H5255) at 5 µg/mL (100 µL/well) can bind Human TL1A, His Tag (Cat. No. TLA-H5243) with a linear range of 0.3-2 ng/mL (QC tested).

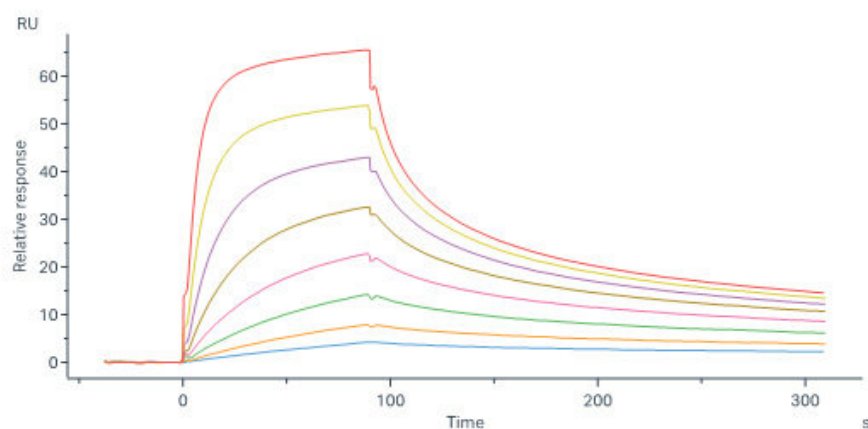


Immobilized Human TL1A, His Tag (Cat. No. TLA-H5243) at 2 µg/mL (100 µL/well) can bind pre-mixed increasing concentrations of Monoclonal Anti-TL1A Antibody, Human IgG1 and 4 µg/mL (50 µL/well) Biotinylated Human DR3 Protein, Fc,Avitag (Cat. No. DR3-H82F3) with a half maximal inhibitory concentration (IC50) of 1.976 µg/mL (Routinely tested).

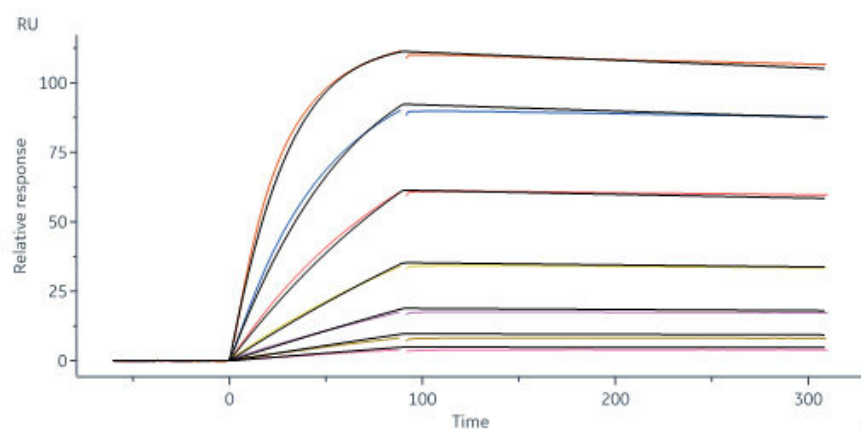


Immobilized Human TL1A, His Tag (Cat. No. TLA-H5243) at 10 µg/mL (100 µL/well) can bind Human DR3 Protein, Fc Tag (Cat. No. DR3-H5253) with a linear range of 0.005-0.156 µg/mL (Routinely tested).

Bioactivity-SPR



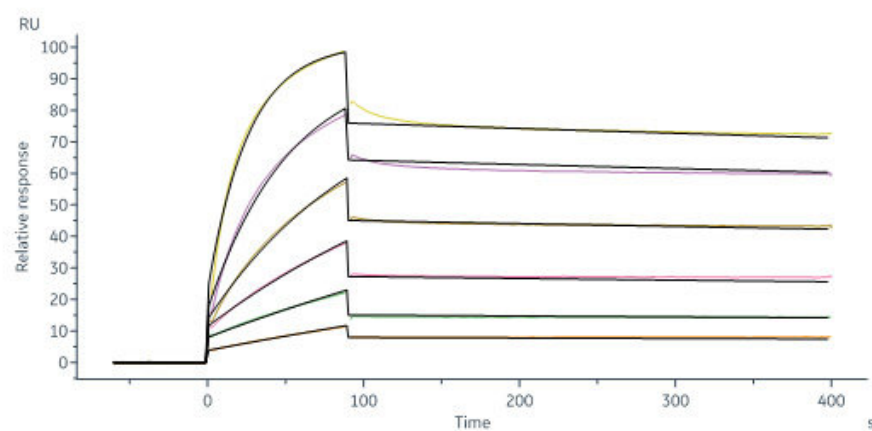
Human DR3 Protein, His Tag (Cat. No. TN5-H52H3) immobilized on CM5 Chip can bind Human TL1A, His Tag (Cat. No. TLA-H5243) with an affinity constant of 45.8 nM as determined in a SPR assay (Biacore 8K) (Routinely tested).



Anti-TL1A antibody captured on Protein A Chip can bind Human TL1A, His Tag (Cat. No. TLA-H5243) with an affinity constant of 0.765 nM as determined in a SPR assay (Biacore 8K) (Routinely tested).

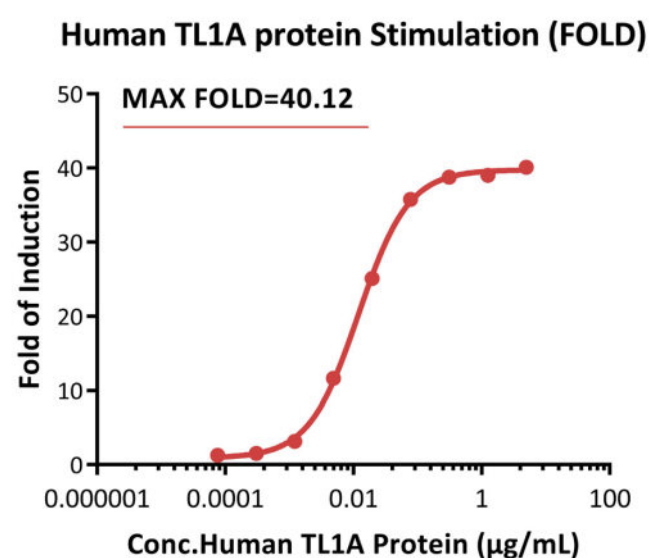
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Human DcR3, Fc Tag (Cat. No. TNB-H5255) captured on Protein A Chip can bind Human TL1A, His Tag (Cat. No. TLA-H5243) with an affinity constant of 0.269 nM as determined in a SPR assay (Biacore 8K) (Routinely tested).

Bioactivity-Bioactivity CELL BASE



Response to human TL1A protein (FOLD).

The DR3 (TL1A receptor) (Luc) Jurkat Reporter Cell was stimulated with serial dilutions of human TL1A protein (Cat.No.TLA-H5243). The max induction fold was approximately 40.12.

Background

TNF-like cytokine 1A (TL1A) and its receptors, death receptor 3 (DR3) and decoy receptor 3 (DcR3) are members of the TNF and TNF receptor superfamilies of proteins, respectively. Binding of APC-derived TL1A to lymphocytic DR3 provides co-stimulatory signals for activated lymphocytes. DR3 signaling affects not only the proliferative activity of and cytokine production by effector lymphocytes, but also critically influences the development and suppressive function of regulatory T-cells. Whereas, DcR3 restricts the function of the TL1A/DR3 complex: attenuating T-cell activation and downregulating the secretion of pro-inflammatory cytokines. Together with DR3 and DcR3, TL1A constitutes a cytokine system that actively interferes with the regulation of immune responses.

Clinical and Translational Updates

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