

Synonym

TSLP

Source

Human TSLP Protein, Fc Tag(TSP-H5253) is expressed from human 293 cells (HEK293). It contains AA Tyr 29 - Gln 159 (Accession # [Q969D9-1](#)).

Predicted N-terminus: Tyr 29

Molecular Characterization

TSLP(Tyr 29 - Gln 159) Q969D9-1	Fc(Pro 100 - Lys 330) P01857
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This protein carries a human IgG1 Fc tag at the C-terminus.

The protein has a calculated MW of 41.4 kDa. The protein migrates as 35-38 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE).

Endotoxin

Less than 1.0 EU per µg by the LAL method / rFC method.

Purity

>90% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

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

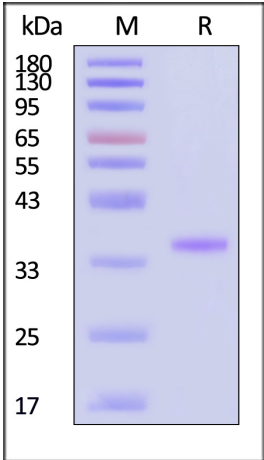
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

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.

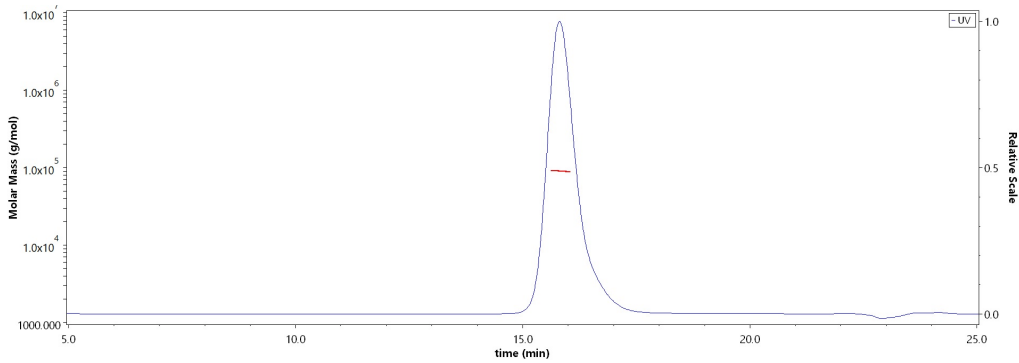
SDS-PAGE



Human TSLP Protein, Fc 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



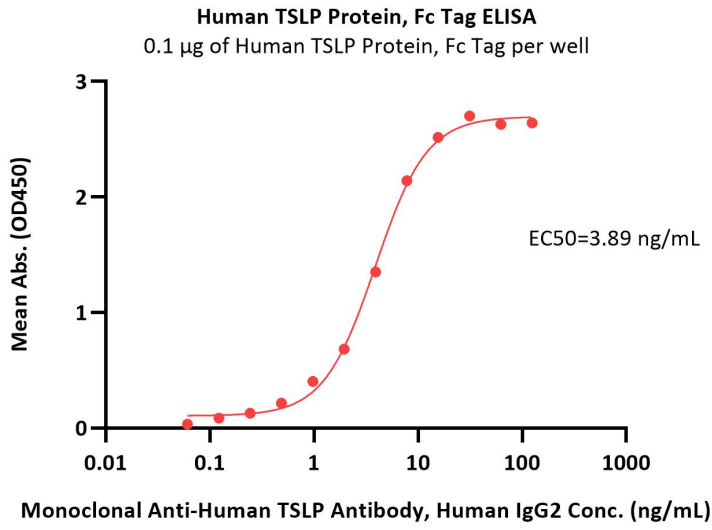
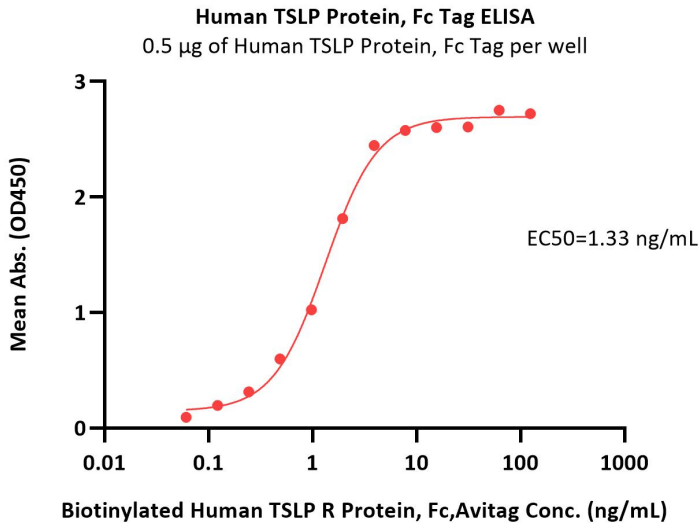
The purity of Human TSLP Protein, Fc Tag (Cat. No. TSP-H5253) is more than 90% and the molecular weight of this protein is around 85-110 kDa verified by SEC-MALS.

[Report](#)



Human TSLP Protein, Fc Tag (MALS verified)

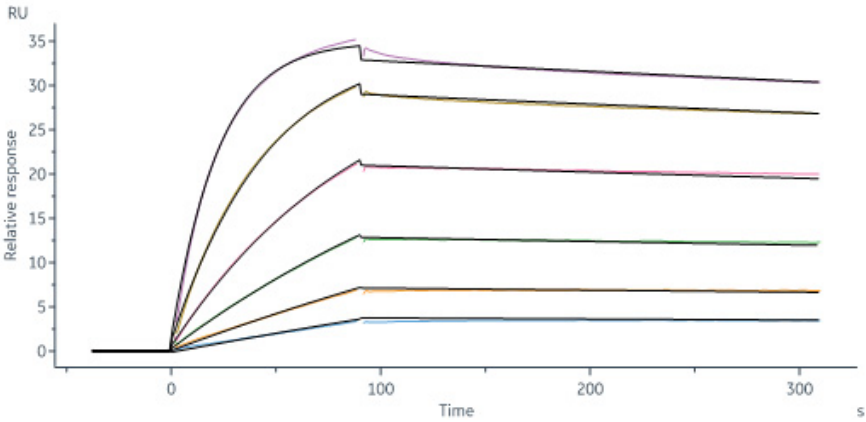
Catalog # TSP-H5253



Immobilized Human TSLP Protein, Fc Tag (Cat. No. TSP-H5253) at 5 µg/mL (100 µL/well) can bind Biotinylated Human TSLP R Protein, Fc,Avitag (Cat. No. TSR-H82F3) with a linear range of 0.06-4 ng/mL (QC tested).

Immobilized Human TSLP Protein, Fc Tag (Cat. No. TSP-H5253) at 1 µg/mL (100 µL/well) can bind Monoclonal Anti-Human TSLP Antibody, Human IgG2 with a linear range of 0.06-8 ng/mL (Routinely tested).

Bioactivity-SPR



Human TSLP R, Fc Tag (Cat. No. TSR-H525a) immobilized on CM5 Chip can bind Human TSLP Protein, Fc Tag (Cat. No. TSP-H5253) with an affinity constant of 47.2 pM as determined in a SPR assay (Biacore 8K) (Routinely tested).

Background

Thymic stromal lymphopoietin (TSLP) is an epithelial cell-derived cytokine involved in the pathology of inflammatory skin diseases, and is widely expressed by epithelial cells. Human TSLP cDNA encodes a 159 amino acid (aa) residue precursor protein with a 28 aa signal sequence (4, 5). Human TSLP has been shown to developing nondeletional central tolerance, amplifying epithelium-induced class switching, inducing atopic diseases and maintaining intestinal noninflammatory environment. Among diverse cells responding to Human TSLP, CD11c+ dendritic cells are the most obviously characterized target cells.

