



**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.

**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**

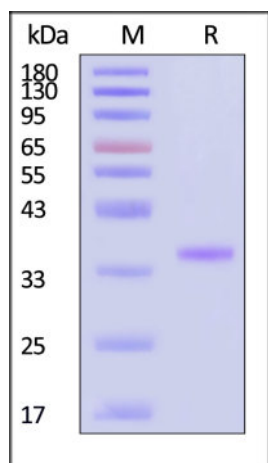
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*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.

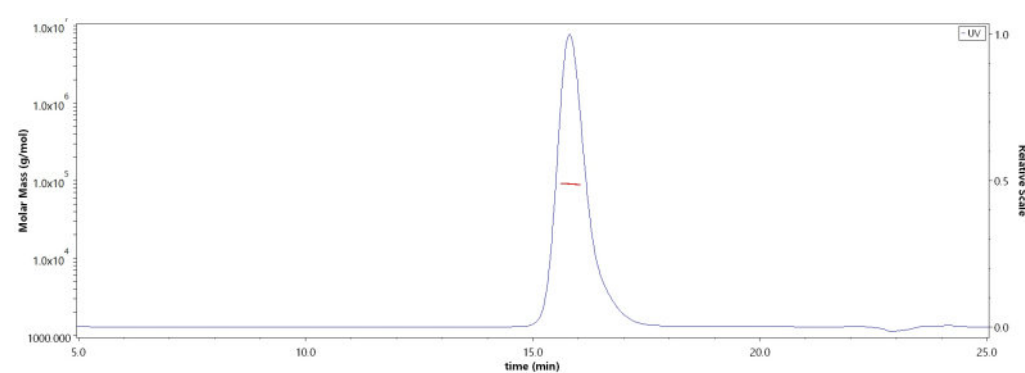
**SDS-PAGE**



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**

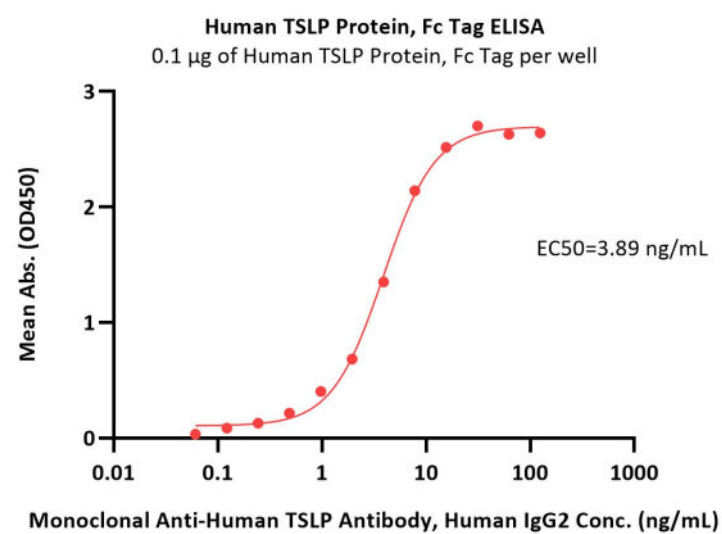
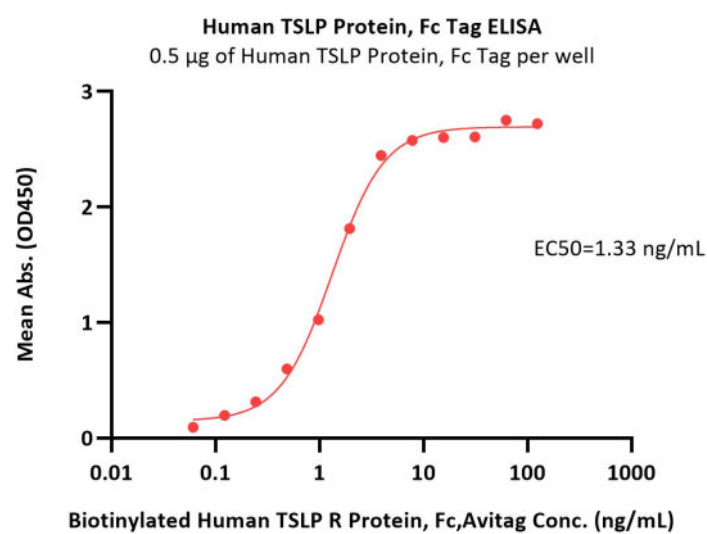


The purity of Human TSLP Protein, Fc Tag (Cat. No. TSP-H5253) is more than 90% and the molecular weight of this protein is around 85-110 kDa verified by SEC-MALS.

[Report](#)

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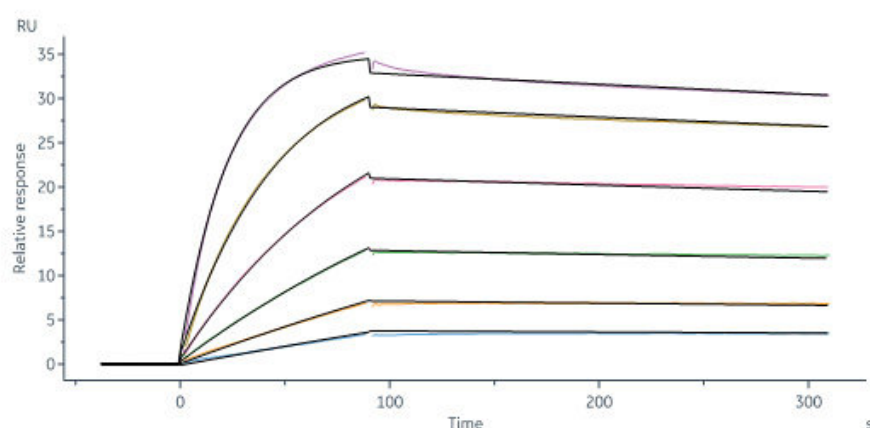




Immobilized Human TSLP Protein, Fc Tag (Cat. No. TSP-H5253) at 5 µg/mL (100 µL/well) can bind Biotinylated Human TSLP R Protein, Fc, Avitag (Cat. No. TSR-H82F3) with a linear range of 0.06-4 ng/mL (QC tested).

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.

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