

Synonym

TSLP

Source

Human TSLP (R127A, R130A) Protein, Mouse IgG2a Fc Tag(TSP-H5255) is expressed from human 293 cells (HEK293). It contains AA Tyr 29 - Gln 159 (Accession # [Q969D9-1](#) (R127A, R130A)).
Predicted N-terminus: Tyr 29

Molecular Characterization



This protein carries a mouse IgG2a Fc tag at the C-terminus.
The protein has a calculated MW of 41.6 kDa. The protein migrates as 50-58 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 0.1 EU per µg by the LAL method / rFC method.

Purity

>95% as determined by SDS-PAGE.
>95% 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

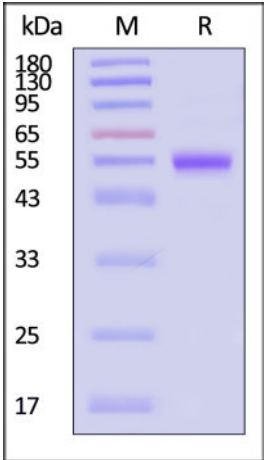
Please see Certificate of Analysis for specific instructions.
For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

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.

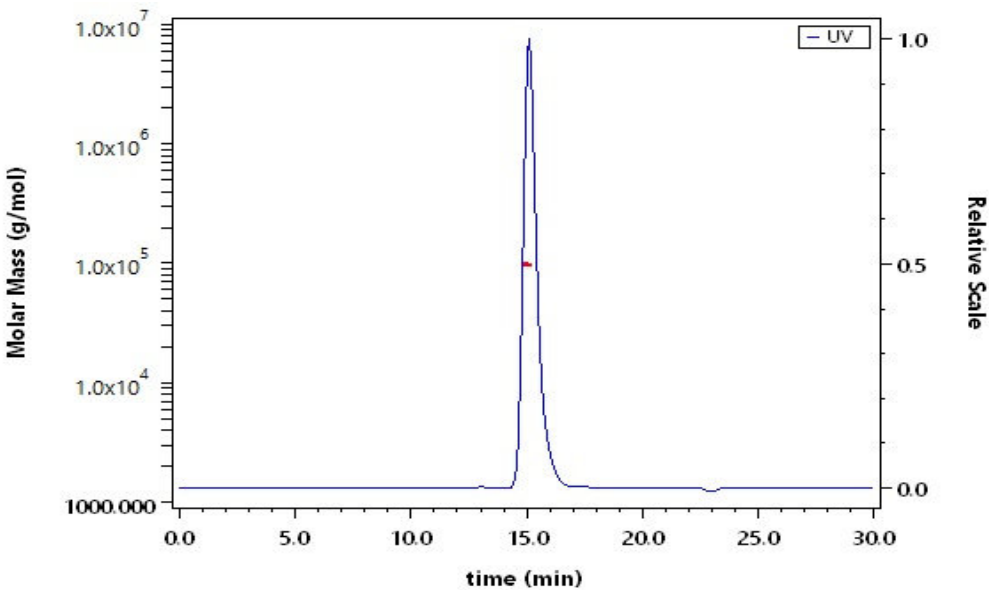
SDS-PAGE



Human TSLP (R127A, R130A) Protein, Mouse IgG2a Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

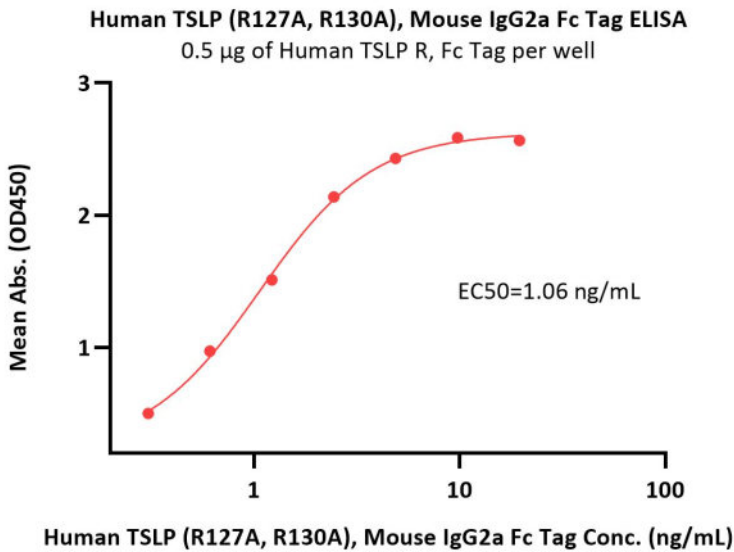
Bioactivity-ELISA

SEC-MALS



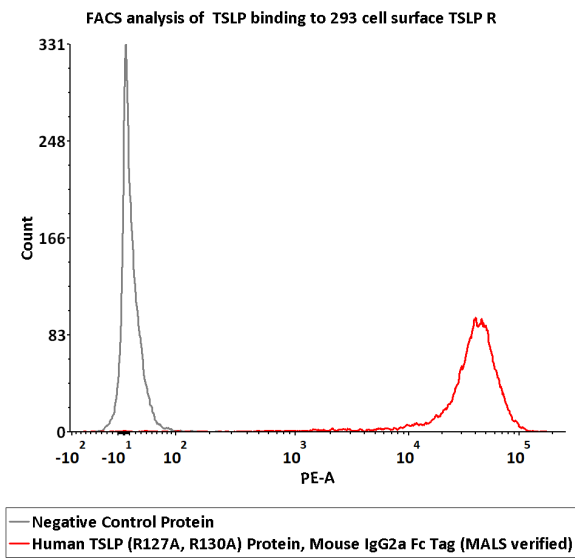
The purity of Human TSLP (R127A, R130A) Protein, Mouse IgG2a Fc Tag (Cat. No. TSP-H5255) is more than 95% and the molecular weight of this protein is around 85-110 kDa verified by SEC-MALS.
[Report](#)





Immobilized Human TSLP R, Fc Tag (Cat. No. TSR-H525a) at 5 µg/mL (100 µL/well) can bind Human TSLP (R127A, R130A), Mouse IgG2a Fc Tag (Cat. No. TSP-H5255) with a linear range of 0.3-1 ng/mL (QC tested).

Bioactivity-FACS



2e5 of Human TSLP R (Luc) HEK293 Reporter Cells were stained with 100 µL of 1 µg/mL of Human TSLP (R127A, R130A) Protein, Mouse IgG2a Fc Tag (Cat. No. TSP-H5255) and negative control protein respectively, washed and then followed by PE anti-mouse IgG2a Antibody and analyzed with FACS(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.

