

Synonym

TSLP

Source

Cynomolgus TSLP (R127A, R130S) Protein, His Tag(TSP-C52H4) is expressed from human 293 cells (HEK293). It contains AA Tyr 29 - Gln 159 (Accession # [A0A7N9CAT7-1](#) (R127A, R130S)).
Predicted N-terminus: Tyr 29

Molecular Characterization



This protein carries a polyhistidine tag at the C-terminus.
The protein has a calculated MW of 16.9 kDa. The protein migrates as 21-30 kDa under non-reducing (NR) condition (SDS-PAGE) due to glycosylation.

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-HPLC.

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

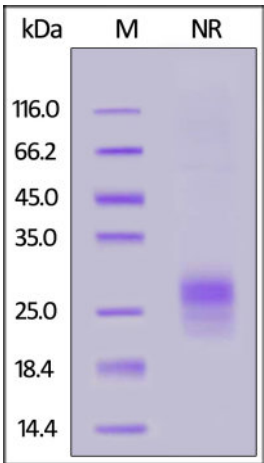
Please see Certificate of Analysis for specific instructions.
For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

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:

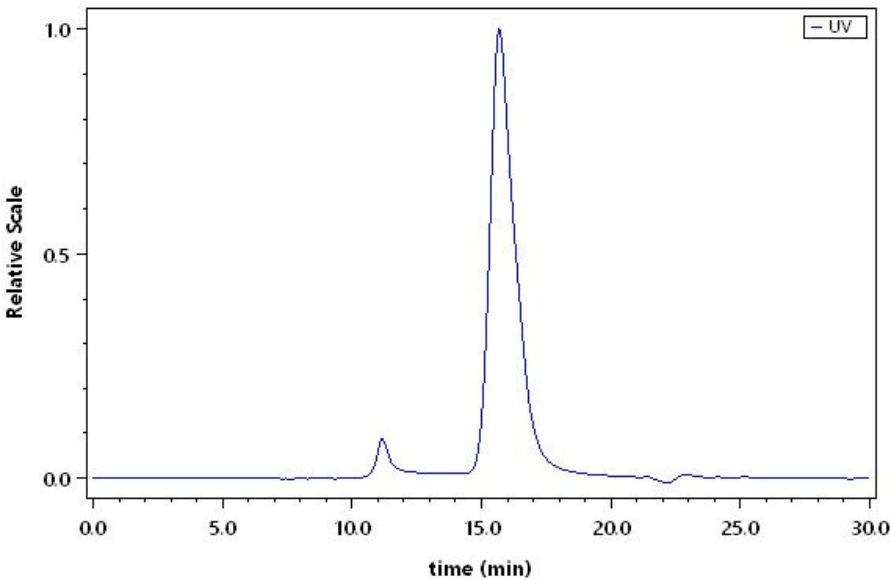
- 20°C to -70°C for 12 months in lyophilized state;
- 70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Cynomolgus TSLP (R127A, R130S) Protein, His Tag on SDS-PAGE under non-reducing (NR) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%.

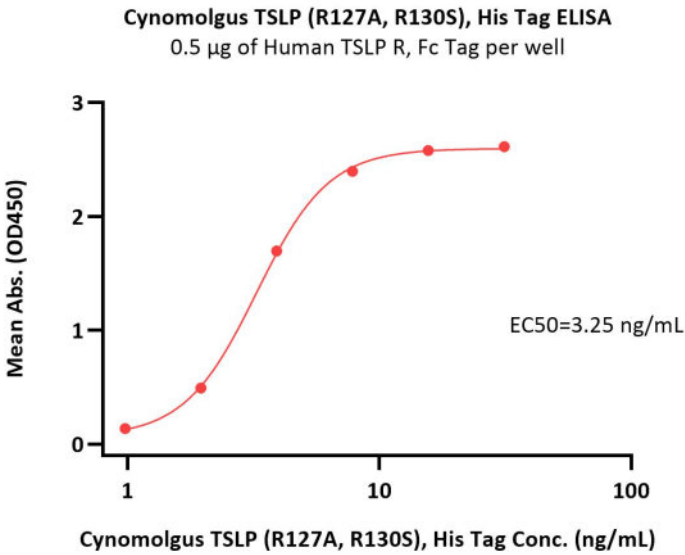
SEC-HPLC



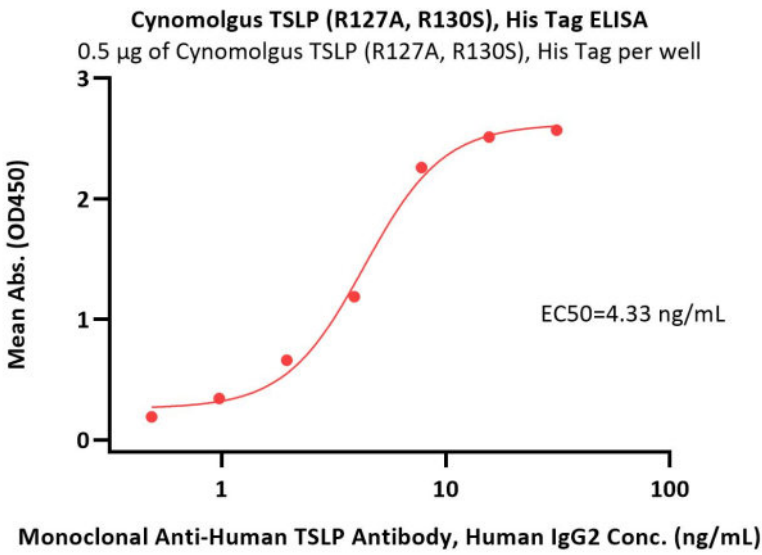
The purity of Cynomolgus TSLP (R127A, R130S) Protein, His Tag (Cat. No. TSP-C52H4) was greater than 90% as determined by SEC-HPLC.

Bioactivity-ELISA





Immobilized Human TSLP R, Fc Tag (Cat. No. TSR-H525a) at 5 µg/mL (100 µL/well) can bind Cynomolgus TSLP (R127A, R130S), His Tag (Cat. No. TSP-C52H4) with a linear range of 1-4 ng/mL (QC tested).



Immobilized Cynomolgus TSLP (R127A, R130S), His Tag (Cat. No. TSP-C52H4) at 5 µg/mL (100 µL/well) can bind Monoclonal Anti-Human TSLP Antibody, Human IgG2 with a linear range of 0.5-8 ng/mL (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.

