

# Biotinylated Human TSLP Protein

Cat. No. TSP-HM401B

## Description

<b>Source</b>	Recombinant Biotinylated Human TSLP Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus. It contains Tyr29-Gln159.
<b>Accession</b>	Q969D9-1
<b>Molecular Weight</b>	The protein has a predicted MW of 17.8 kDa. Due to furin cleavage site, the protein migrates to 12 kDa&25-30 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

## Formulation and Storage

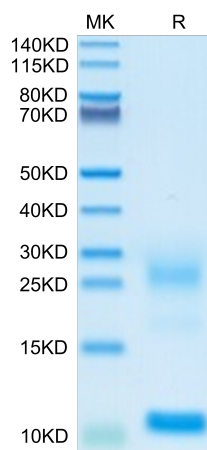
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

Thymic Stromal Lymphopoietin (TSLP) was originally identified as an activity from the conditioned medium of a mouse thymic stromal cell line that promoted the development of B cells. Cytokine that induces the release of T-cell-attracting chemokines from monocytes and, in particular, enhances the maturation of CD11c dendritic cells. Can induce allergic inflammation by directly activating mast cells.

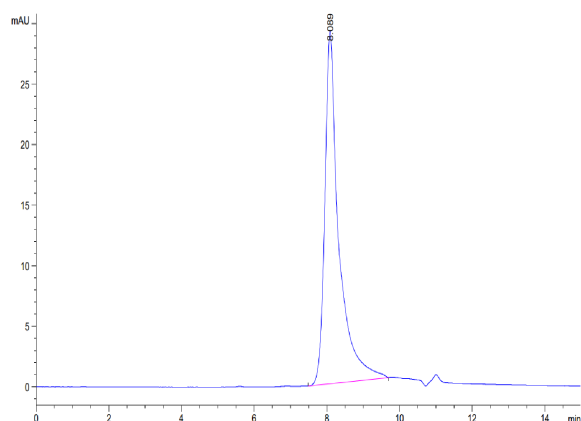
## Assay Data

### Bis-Tris PAGE



Biotinylated Human TSLP on Bis-Tris PAGE under reduced conditions. The purity is greater than 95%.

### SEC-HPLC



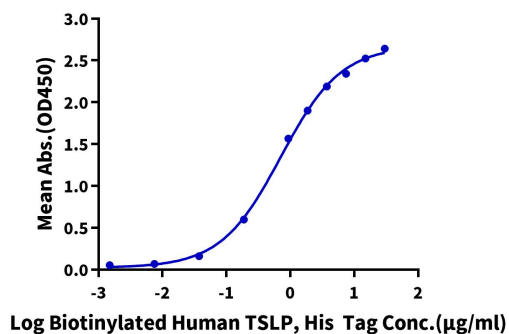
The purity of Biotinylated Human TSLP is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

**Biotinylated Human TSLP, His Tag ELISA**

0.5µg Human TSLPR, hFc Tag Per Well

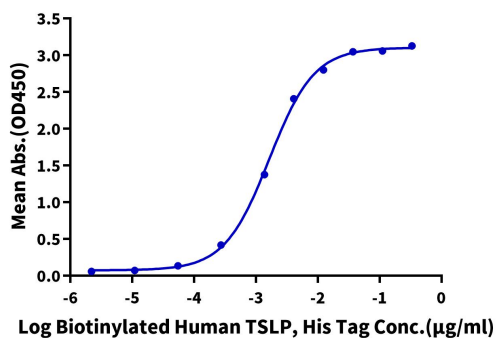


Immobilized Human TSLPR, His Tag at 5µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Human TSLP, His Tag with the EC50 of 0.71µg/ml determined by ELISA (QC Test).

ELISA Data

**Biotinylated Human TSLP, His Tag ELISA**

0.05µg Anti-TSLP Antibody, hFc Tag Per Well



Immobilized Anti-TSLP Antibody, hFc Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Human TSLP, His Tag with the EC50 of 1.6ng/ml determined by ELISA.