

Biotinylated Human TSLP Protein

Cat. No. TSP-HM401B



Description

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

Formulation and Storage

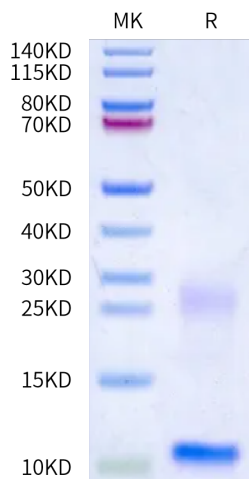
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 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.

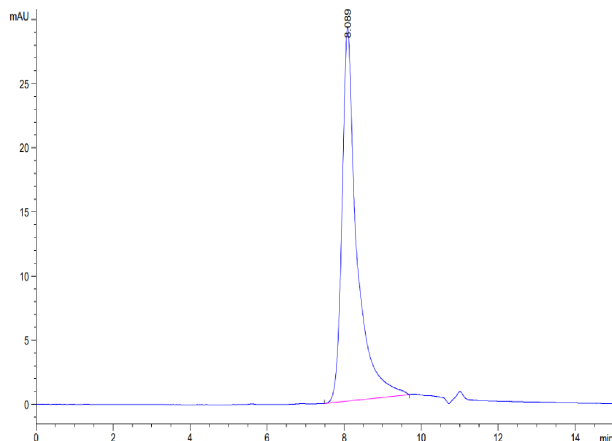
Assay Data

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.

Biotinylated Human TSLP Protein

Cat. No. TSP-HM401B

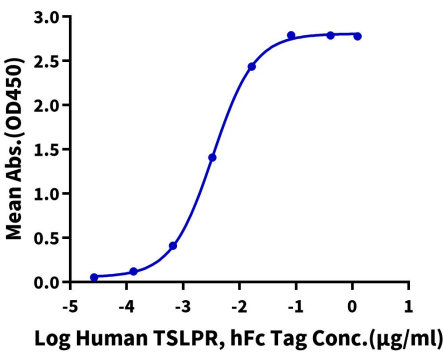


Assay Data

ELISA Data

Biotinylated Human TSLP, His Avi Tag ELISA

0.1µg Biotinylated Human TSLP, His AviTag Per Well

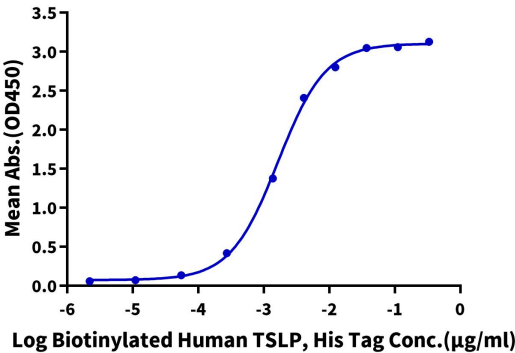


Immobilized Biotinylated Human TSLP, His Avi Tag at 1µg/ml(100µl/well) on the streptavidin precoated plate (5µg/ml). Dose response curve for Human TSLPR, hFc Tag with the EC50 of 3.4ng/ml determined by ELISA.

ELISA Data

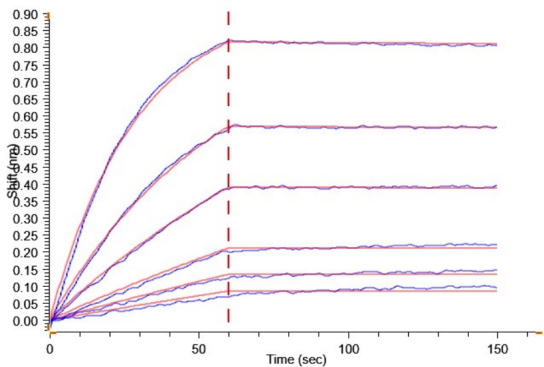
Biotinylated Human TSLP, His Tag ELISA

0.05µg Anti-TSLP Antibody, hFc Tag Per Well



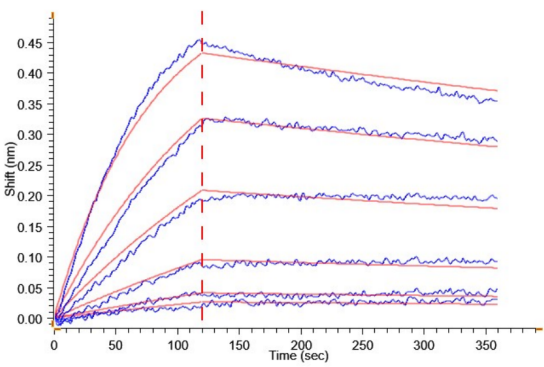
Immobilized Anti-TSLP Antibody, hFc Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Human TSLP, His Tag with the EC50 of 1.6ng/ml determined by ELISA.

BLI Data



Loaded Anti-TSLP Antibody, hFc Tag on ProA-Biosensor can bind Biotinylated Human TSLP, His Tag with an affinity constant of 0.20 nM as determined in BLI assay (Gator® Prime).

BLI Data



Loaded Biotinylated Human TSLP, His Tag on Anti-His-Biosensor can bind Human TSLPR, hFc Tag with an affinity constant of 1.30 nM as determined in BLI assay (Gator® Prime).