

Biotinylated Human TSLP (R127A, R130A) Protein

Cat. No. TSP-HM402B



Description

Source	Recombinant Biotinylated Human TSLP (R127A, R130A) Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus.
	It contains Tyr29-Gln159(R127A,R130A).
Accession	Q969D9-1
Molecular Weight	The protein has a predicted MW of 17.7 kDa. Due to glycosylation, the protein migrates to 25-38 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

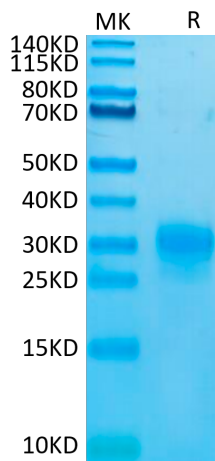
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for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

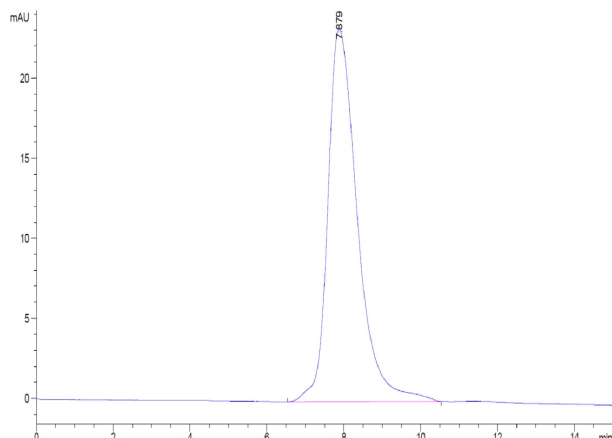
Assay Data

Bis-Tris PAGE



Biotinylated Human TSLP (R127A, R130A) on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



The purity of Biotinylated Human TSLP (R127A, R130A) is greater than 95% as determined by SEC-HPLC.

Biotinylated Human TSLP (R127A, R130A) Protein

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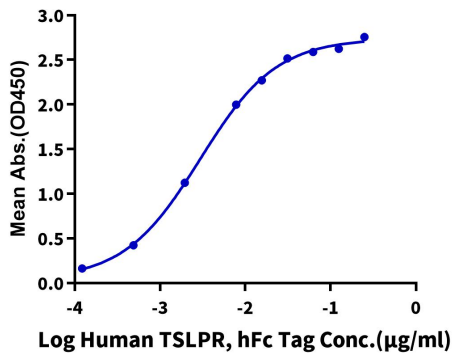


Assay Data

ELISA Data

Biotinylated Human TSLP (R127A, R130A), His Avi Tag ELISA

0.1µg Biotinylated Human TSLP (R127A, R130A), His Avi Tag Per Well

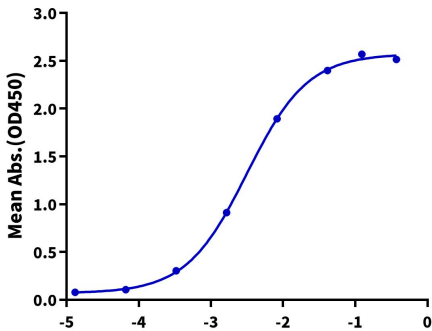


Immobilized Biotinylated Human TSLP (R127A, R130A), His Avi Tag at 1µg/ml (100µl/well) on the streptavidin precoated plate (5µg/ml). Dose response curve for Human TSLPR, hFc Tag with the EC50 of 3.0ng/ml determined by ELISA.

ELISA Data

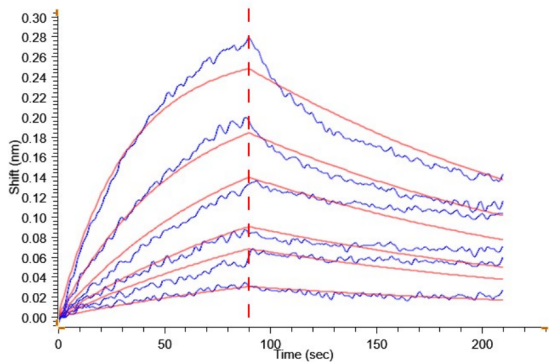
Biotinylated Human TSLP(R127A, R130A), His Tag ELISA

0.05µg Anti-TSLP Antibody, hFc Tag Per Well



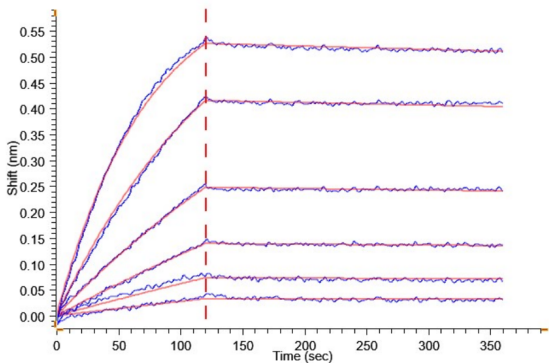
Immobilized Anti-TSLP Antibody, hFc Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Human TSLP (R127A, R130A), His Tag with the EC50 of 3.2ng/ml determined by ELISA.

BLI Data



Loaded Human TSLPR, hFc Tag on ProA-Biosensor can bind Biotinylated Human TSLP (R127A, R130A), His-Avi Tag with an affinity constant of 4.87 nM as determined in BLI assay (Gator® Prime).

BLI Data



Loaded Anti-TSLP Antibody, hFc Tag on ProA-Biosensor can bind Biotinylated Human TSLP (R127A, R130A), His-Avi Tag with an affinity constant of 0.22 nM as determined in BLI assay (Gator® Prime).