

Biotinylated Cynomolgus TSLP Protein (Primary Amine Labeling)



Cat. No. TSP-CM101B

Description

Source	Recombinant Biotinylated Cynomolgus TSLP Protein (Primary Amine Labeling) is expressed from HEK293 with His tag at the C-Terminus. It contains Tyr29-Gln159.
Accession	A0A7N9CAT7
Molecular Weight	The protein has a predicted MW of 16.3 kDa. Due to furin cleavage site, the protein migrates to 10-13 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per µg by the LAL method.
Purity	> 90% as determined by Bis-Tris PAGE > 90% as determined by HPLC

Formulation and Storage

Formulation	Lyophilized from 0.22 µm 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.

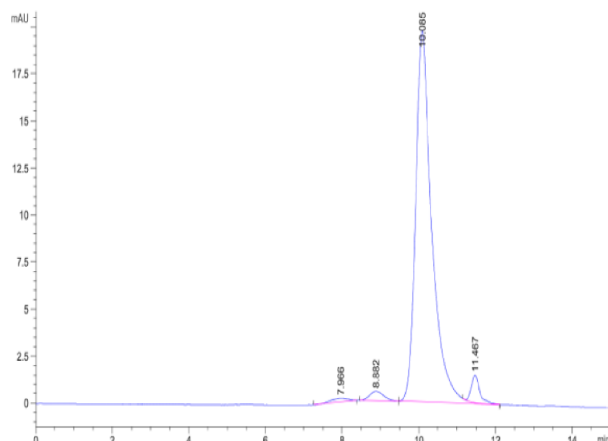
Assay Data

Bis-Tris PAGE



Biotinylated Cynomolgus TSLP on Bis-Tris PAGE under reduced conditions. The purity is greater than 90%.

SEC-HPLC

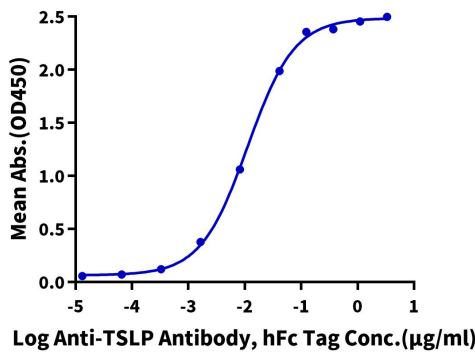


The purity of Biotinylated Cynomolgus TSLP is greater than 90% as determined by SEC-HPLC.

Assay Data

ELISA Data

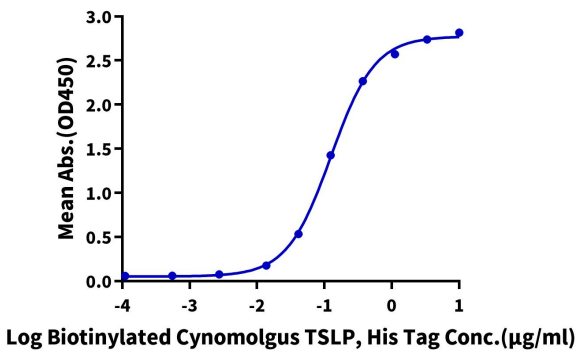
Biotinylated Cynomolgus TSLP, His Tag ELISA
0.05µg Biotinylated Cynomolgus TSLP, His Tag Per Well



Immobilized Biotinylated Cynomolgus TSLP, His Tag at 0.5µg/ml (100µl/well) on the streptavidin precoated plate (5µg/ml). Dose response curve for Anti-TSLP Antibody, hFc Tag with the EC50 of 11.2ng/ml determined by ELISA (QC Test).

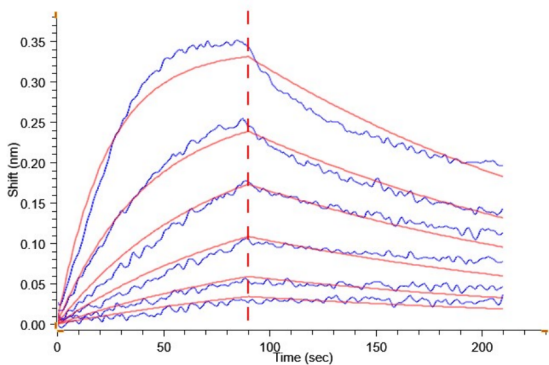
ELISA Data

Biotinylated Cynomolgus TSLP, His Tag ELISA
0.2µg Cynomolgus TSLPR, His Tag Per Well



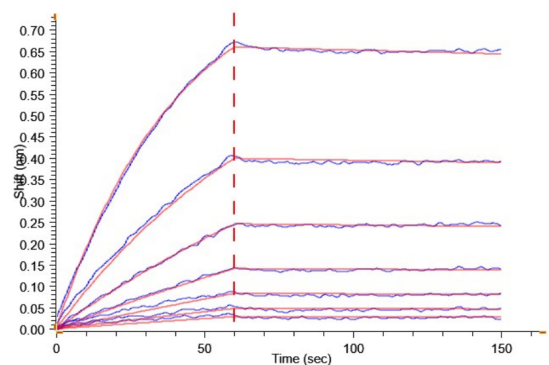
Immobilized Cynomolgus TSLPR, His Tag at 2µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Cynomolgus TSLP, His Tag with the EC50 of 0.12µg/ml determined by ELISA.

BLI Data



Loaded Human TSLPR, hFc Tag on ProA-Biosensor can bind Biotinylated Cynomolgus TSLP, His Tag with an affinity constant of 13.40 nM as determined in BLI assay (Gator® Prime).

BLI Data



Loaded Anti-TSLP Antibody, hFc Tag on ProA-Biosensor can bind Biotinylated Cynomolgus TSLP, His Tag with an affinity constant of 1.12 nM as determined in BLI assay (Gator® Prime).