

Human IL-7 R alpha&TSLPR Protein

Cat. No. ILT-HM107

Description

Source	Recombinant Human IL-7 R alpha&TSLPR Protein is expressed from HEK293 with His tag at the C-terminus of IL-7 R alpha. It contains Glu21-Asp239 (IL-7 R alpha) and Gln23-Lys231 (TSLPR).
Accession	P16871-1(IL-7 R alpha)&Q9HC73-1(TSLPR)
Molecular Weight	The protein has a predicted MW of 31.18 kDa (IL-7 R alpha) and 29.03 kDa (TSLPR). Due to glycosylation, the protein migrates to 58-68 kDa (IL-7 R alpha) and 50-58 kDa (TSLPR) 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 > 95% as determined by HPLC

Formulation and Storage

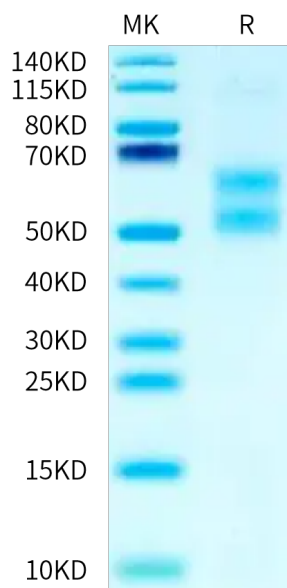
Formulation	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for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

IL-7R alpha & TSLPR is an heterodimeric receptor, with TSLP as the ligand, which initiates downstream signaling pathways upon binding to TSLP and subsequently participates in thymus development and immune cell generation. Among them, IL-7R alpha is a component of both the IL-7 and TSLP receptors.

Assay Data

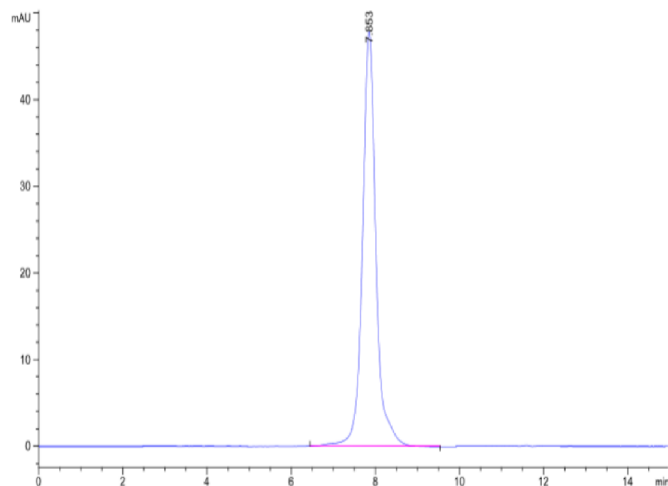
Bis-Tris PAGE



Human IL-7 R alpha&TSLPR on Bis-Tris PAGE under reduced condition. The purity is greater than 90%.

SEC-HPLC

Assay Data

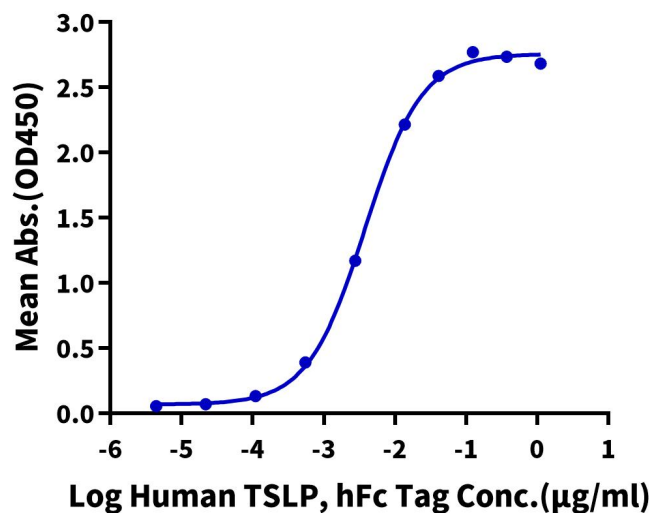


The purity of Human IL-7 R alpha&TSLPR is greater than 95% as determined by SEC-HPLC.

ELISA Data

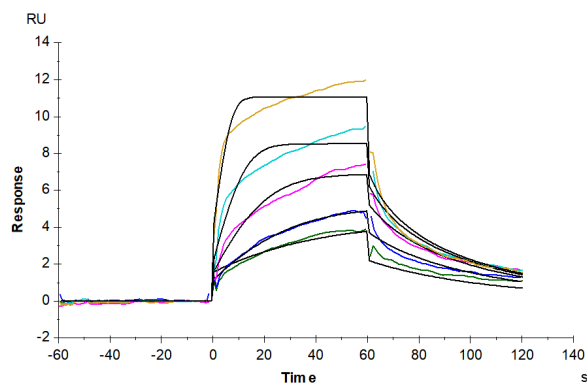
Human IL-7R alpha&TSLPR, His Tag ELISA

0.1 µg Human IL-7R alpha&TSLPR, His Tag Per Well



Immobilized Human IL-7R alpha&TSLPR, His Tag at 1 µg/ml (100 µl/well) on the plate. Dose response curve for Human TSLP, hFc Tag with the EC50 of 3.8 ng/ml determined by ELISA (QC Test).

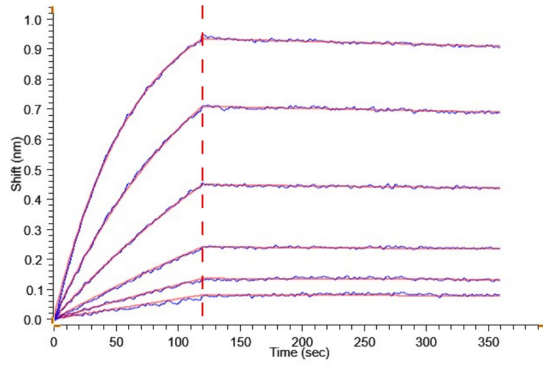
SPR Data



Human IL-7R alpha&TSLPR, His Tag captured on CM5 Chip via Anti-His Antibody can bind Human IL-7, No Tag with an affinity constant of 15.54 nM as determined in SPR assay (Biacore T200).

BLI Data

Assay Data



Loaded Human TSLP, Fc Tag on ProA-Biosensor can bind IL-7 R alpha&TSLP R, His Tag with an affinity constant of 0.37 nM as determined in BLI assay .