

Human IL-7 R alpha&TSLPR Protein

Cat. No.    ILT-HM107



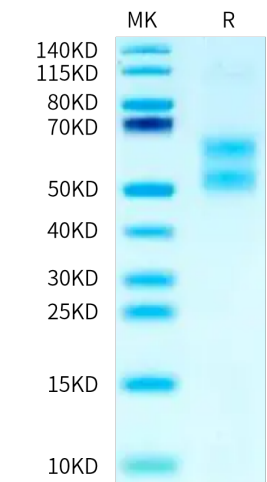
Description	
Source	Recombinant Human IL-7 R alpha&TSLPR Protein is expressed from HEK293 with His tag at the C-terminus of IL-7 R alpha. It contains Glu21-Asp239 (IL-7 R alpha) and Gln23-Lys231 (TSLPR).
Accession	P16871-1(IL-7 R alpha)&Q9HC73-1(TSLPR)
Molecular Weight	The protein has a predicted MW 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	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage	
Formulation	Supplied as 0.22 µm filtered solution in PBS (pH 7.4).
Storage	Valid for 12 months from date of receipt when stored at -80°C. 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.	

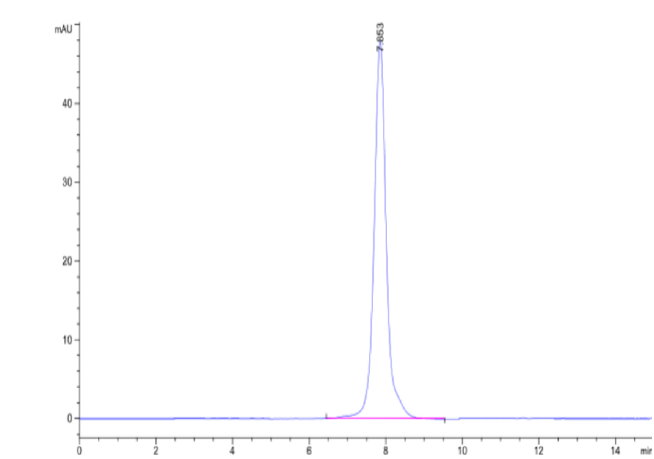
Assay Data

Bis-Tris PAGE



Human IL-7 R alpha&TSLPR on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

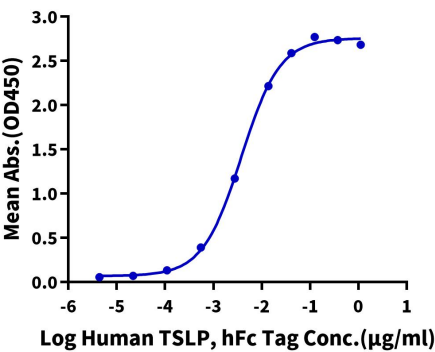


The purity of Human IL-7 R alpha&TSLPR is greater than 95% as determined by SEC-HPLC.

Assay Data

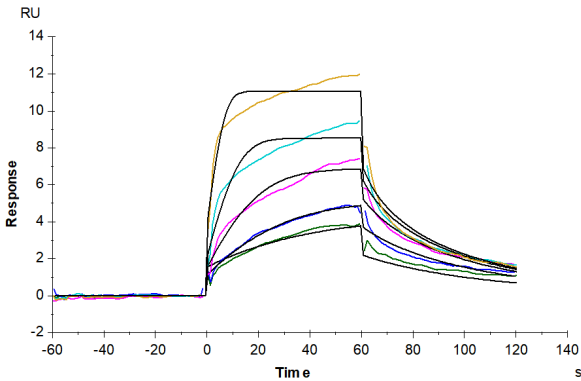
ELISA Data

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



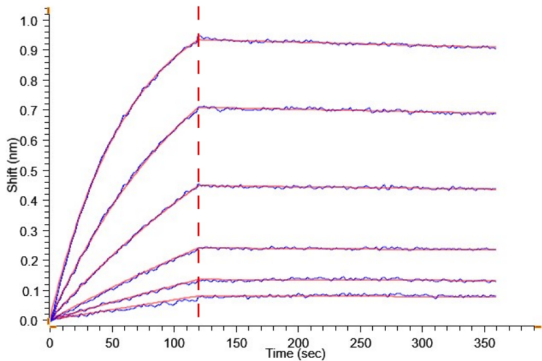
Immobilized Human IL-7R alpha&TSLPR, His Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Human TSLP, hFc Tag with the EC50 of 3.8ng/ml determined by ELISA (QC Test).

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



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 (Gator® Prime).