Human IL-17A/CTLA-8 Protein

Cat. No. ILA-HM118

Description

Source	Recombinant Human IL-17A/CTLA-8 Protein is expressed from HEK293 with His tag at the C-Terminus.
	It contains Gly24-Ala155.
Accession	Q16552-1
Molecular Weight	The protein has a predicted MW of 16.2 kDa. Due to glycosylation, the protein migrates to 15-20 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

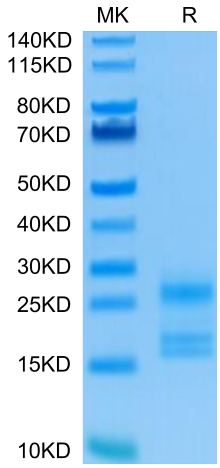
Formulation	Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for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

Interleukin17A (IL17A), also known as CTLA8, is a 1520 kDa glycosylated cytokine that plays an important role in antimicrobial and chronic inflammation. The six IL17 cytokines (IL17AF) are encoded by separate genes but adopt a conserved cystine knot fold.IL-17A is a ligand for IL17RA and IL17RC. The heterodimer formed by IL17A and IL17F is a ligand for the heterodimeric complex formed by IL17RA and IL17RC. Involved in inducing stromal cells to produce proinflammatory and hematopoietic cytokines.

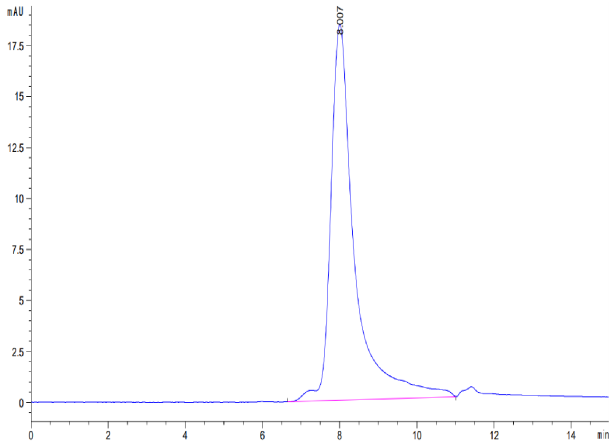
Assay Data

Bis-Tris PAGE



Human IL-17A on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



The purity of Human IL-17A is greater than 95% as determined by SEC-HPLC.

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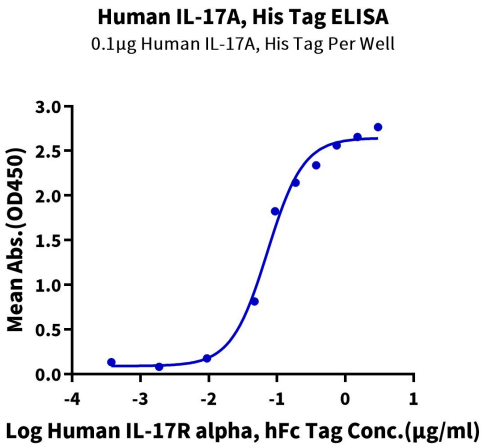
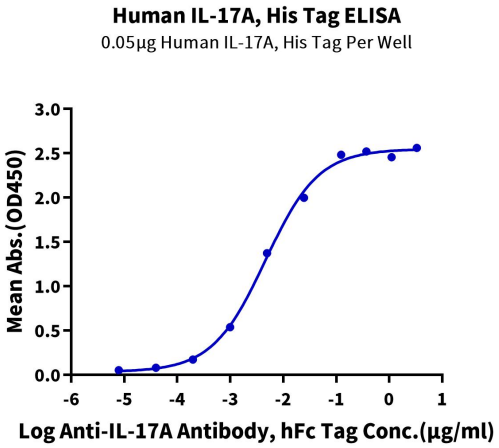
Assay Data

ELISA Data



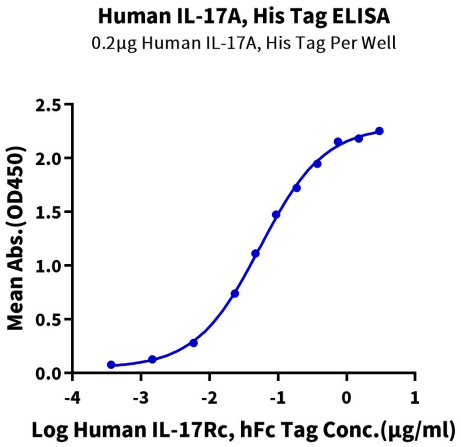
Immobilized Human IL-17A, His Tag at 1μg/ml (100μl/well) on the plate. Dose response curve for Human IL-17R alpha, hFc Tag with the EC50 of 72.2ng/ml determined by ELISA.

ELISA Data



Immobilized Human IL-17A, His Tag at 0.5μg/ml (100μl/well) on the plate. Dose response curve for Anti-IL-17A Antibody, hFc Tag with the EC50 of 4.6ng/ml determined by ELISA.

ELISA Data



Immobilized Human IL-17A, His Tag at 2μg/ml (100μl/Well) on the plate. Dose response curve for Human IL-17Rc, hFc Tag with the EC50 of 54.6ng/ml determined by ELISA.

Cell Based Assay

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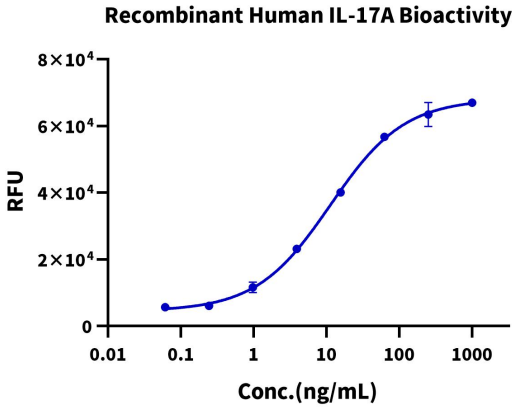
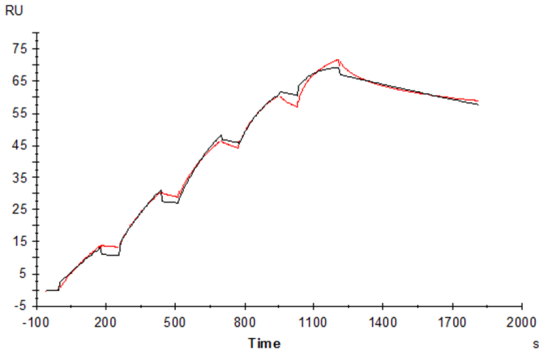
Assay Data



The bioactivity of IL-17A was measured using a luciferase reporter cell line which stably expresses the IL17RA and IL17RC receptor. The ED50 for this effect is 10-20 ng/mL.

SPR Data



Human IL-17R alpha, His Tag immobilized on CM5 Chip can bind Human IL-17A, His Tag with an affinity constant of 1.57nM as determined in SPR assay (Biacore T200) (Routine Test).

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