

# Cynomolgus IL-17A/CTLA-8 Protein

Cat. No. ILA-CM117

## Description

<b>Source</b>	Recombinant Cynomolgus IL-17A/CTLA-8 Protein is expressed from HEK293 with His tag at the N-terminus. It contains Gly24-Ala155.
<b>Accession</b>	XP_005552816.3
<b>Molecular Weight</b>	The protein has a predicted MW of 16.21 kDa. Due to glycosylation, the protein migrates to 18-20 kDa, 25-27 kDa and 28-32 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 0.1 EU per $\mu\text{g}$ by the LAL method.
<b>Purity</b>	> 90% as determined by Bis-Tris PAGE > 90% as determined by HPLC

## Formulation and Storage

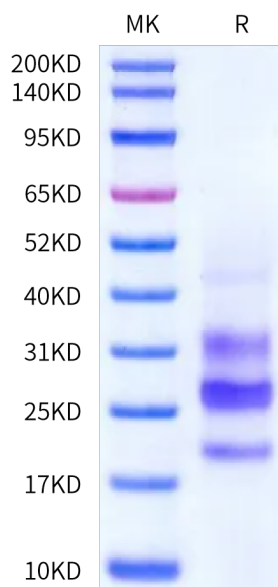
<b>Formulation</b>	Lyophilized from 0.22 $\mu\text{m}$ filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
<b>Storage</b>	-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

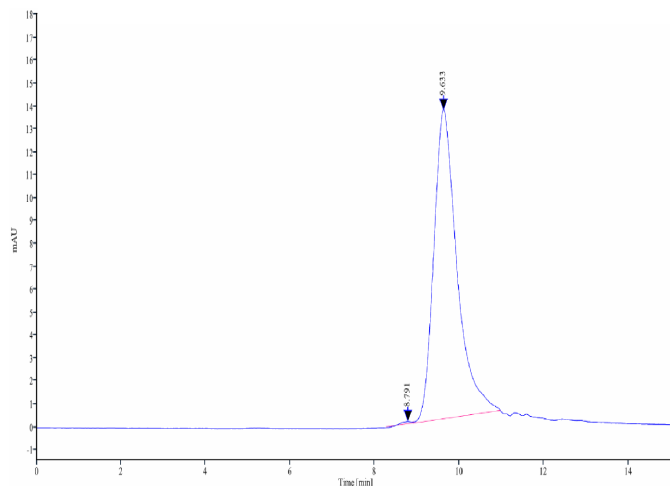
### Bis-Tris PAGE



Cynomolgus IL-17A on Bis-Tris PAGE under reduced condition. The purity is greater than 90%.

### SEC-HPLC

Assay Data

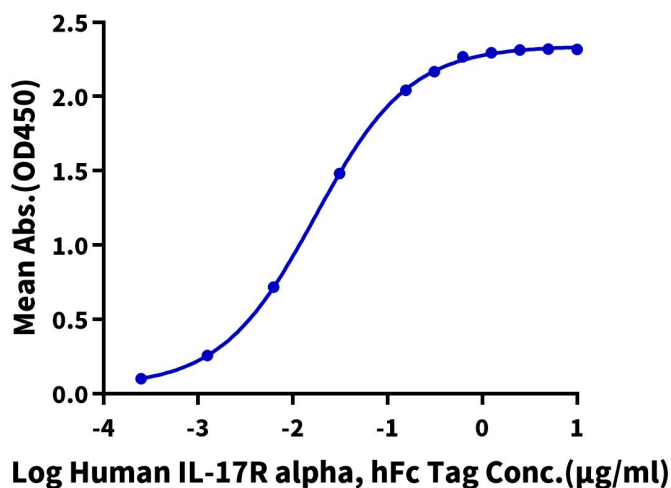


The purity of Cynomolgus IL-17A is greater than 90% as determined by SEC-HPLC.

ELISA Data

**Cynomolgus IL-17A, His Tag ELISA**

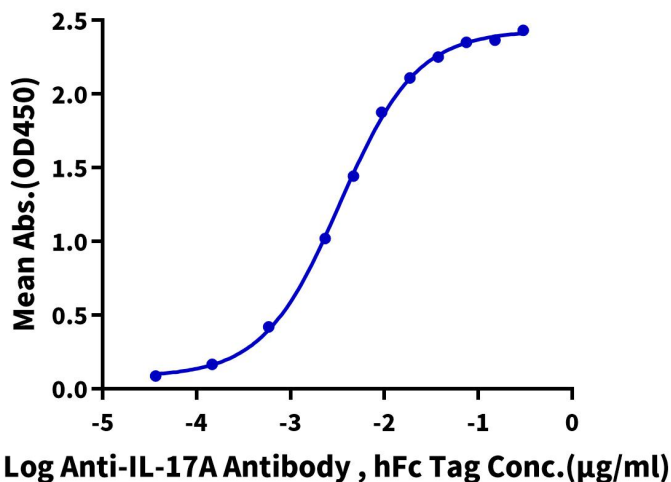
0.1µg Cynomolgus IL-17A, His Tag Per Well



Immobilized Cynomolgus IL-17A, His Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Human IL-17R alpha, hFc Tag (Cat. CD7-HM2RA) with the EC50 of 17.3ng/ml determined by ELISA.

**Cynomolgus IL-17A, His Tag ELISA**

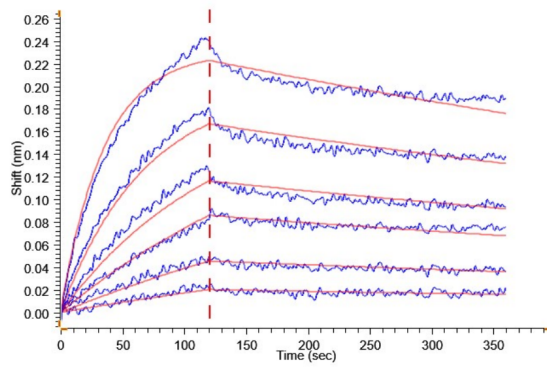
0.2µg Cynomolgus IL-17A, His Tag Per Well



Immobilized Cynomolgus IL-17A, His Tag at 2µg/ml (100µl/well) on the plate. Dose response curve for Anti-IL-17A Antibody, hFc Tag with the EC50 of 3.4ng/ml determined by ELISA.

Assay Data

BLI Data



Loaded Human IL-17R alpha, hFc Tag (Cat. CD7-HM2RA) on ProA-Biosensor can bind Cynomolgus IL-17A, His Tag with an affinity constant of 14.30 nM as determined in BLI assay