

# Human IL-17R alpha/CD217 Protein

Cat. No. CD7-HM1RA

## Description

<b>Source</b>	Recombinant Human IL-17R alpha/CD217 Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Leu33-Trp320.
<b>Accession</b>	Q96F46-1
<b>Molecular Weight</b>	The protein has a predicted MW of 34.6 kDa. Due to glycosylation, the protein migrates to 60-70 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1EU per ug by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

## Formulation and Storage

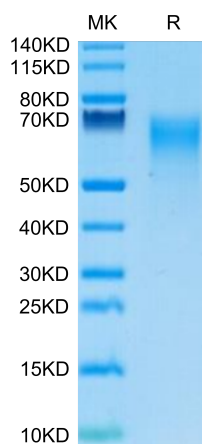
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<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

Interleukin 17 (also known as CTLA8) is a T cell-expressed pleiotropic cytokine. IL17 binds to IL17 receptor (IL17 R) which shares no homology with any known family of receptors. While the expression of IL17 is restricted to activated T cells, the IL17 R mRNA exhibits a broad tissue distribution, and has been detected in virtually all cells and tissues tested. The human IL17 R gene was localized to chromosome 22.

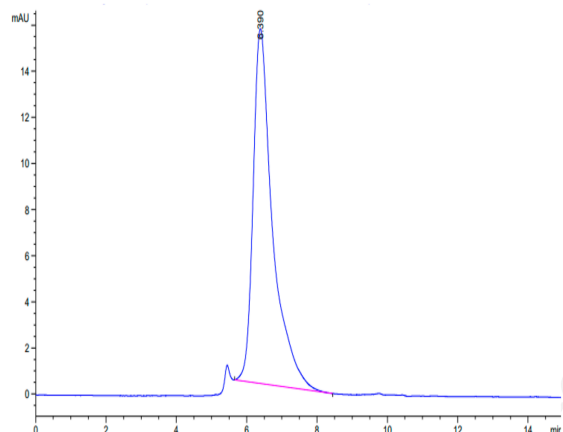
## Assay Data

### Bis-Tris PAGE



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

### SEC-HPLC



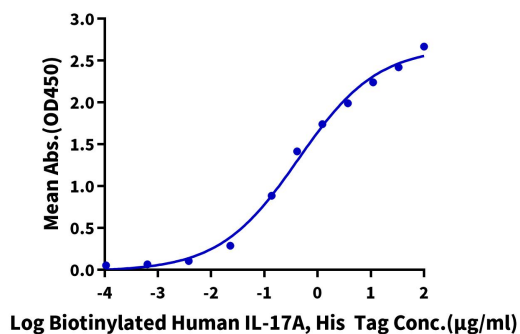
The purity of Human IL-17R alpha is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

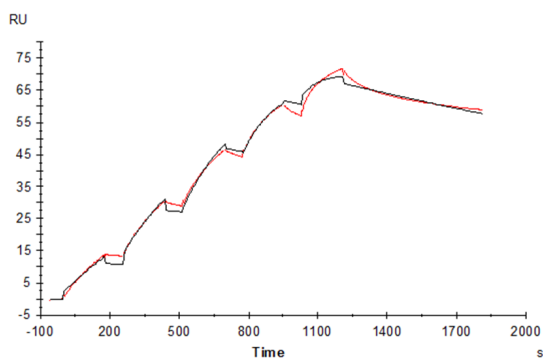
Human IL-17R alpha, His Tag ELISA

0.5µg Human IL-17R alpha, His Tag Per Well



Immobilized Human IL-17R alpha, His Tag at 5µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Human IL-17A, His Tag with the EC50 of 0.44µg/ml determined by ELISA (QC Test).

SPR Data



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