Human IL-17R alpha/CD217 Protein

Cat. No. CD7-HM1RA

Description

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

Formulation and Storage

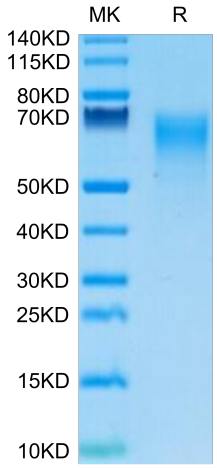
Formulation	Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -20 to -80°C for 3-6 months in unopened state after reconstitution. 2-8°C for 2-7 days 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 cellexpressed pleotropic 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

Tris-Bis PAGE



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

SEC-HPLC

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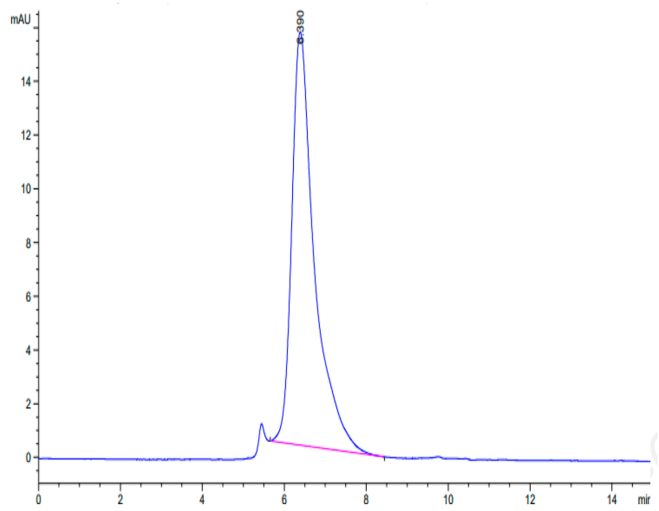
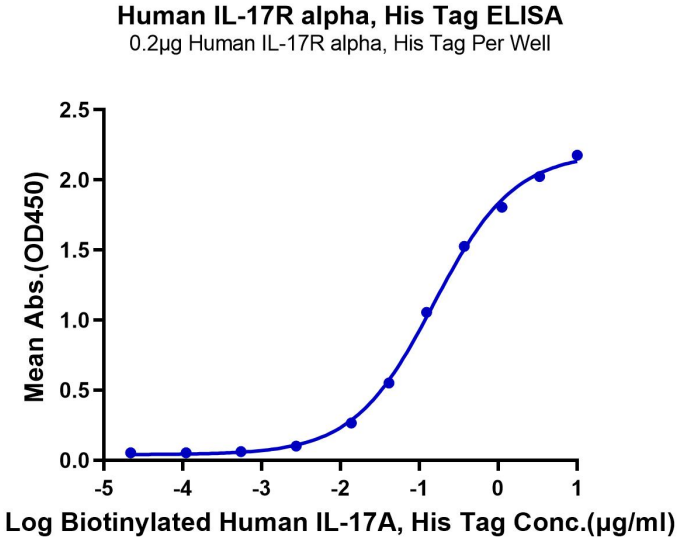
Assay Data



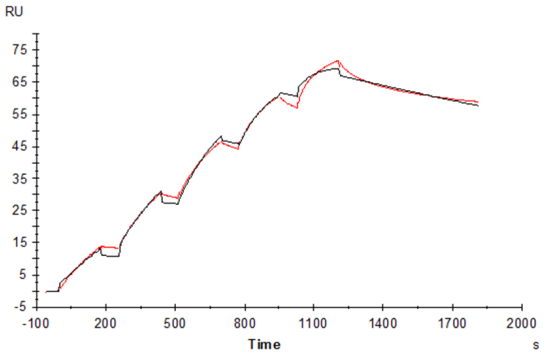
The purity of Human IL-17R alpha is greater than 95% as determined by SEC-HPLC.

ELISA Data



Immobilized Human IL-17R alpha, His Tag at 2μg/ml (100μl/well) on the plate. Dose response curve for Biotinylated Human IL-17A, His Tag with the EC50 of 0.15μg/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).

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