Human IL-21R Protein

Cat. No. ILR-HM221

Description

Source	Recombinant Human IL-21R Protein is expressed from HEK293 with hFc tag at the C-Terminus.
	It contains Cys20-Pro236.
Accession	NP_068570.1
Molecular Weight	The protein has a predicted MW of 51.8 kDa. Due to glycosylation, the protein migrates to 60-70 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

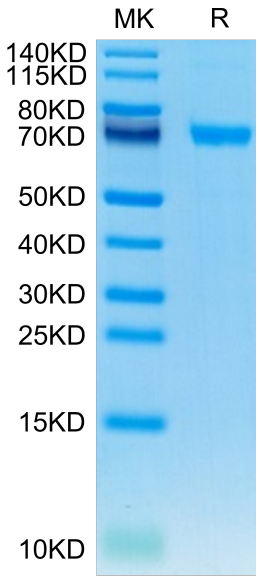
Formulation	Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for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

IL-21 and IL-21R were highly expressed in the lesional skin and peripheral blood of psoriasis patients. IL-21 promoted CD4 T cells proliferation and Th17 cells differentiation and inhibiting Treg cells differentiation by upregulating RORγt expression and downregulating Foxp3 expression, with increased expression and secretion of IL-17A and IL-22.Microbial translocation and the associated immune activation during HIV-1 infection may lead to high expression levels of the IL-21R activation marker in RM B cells, a feature associated with increased apoptosis and a reduced number of these cells in the circulation.

Assay Data

Bis-Tris PAGE



Human IL-21R on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

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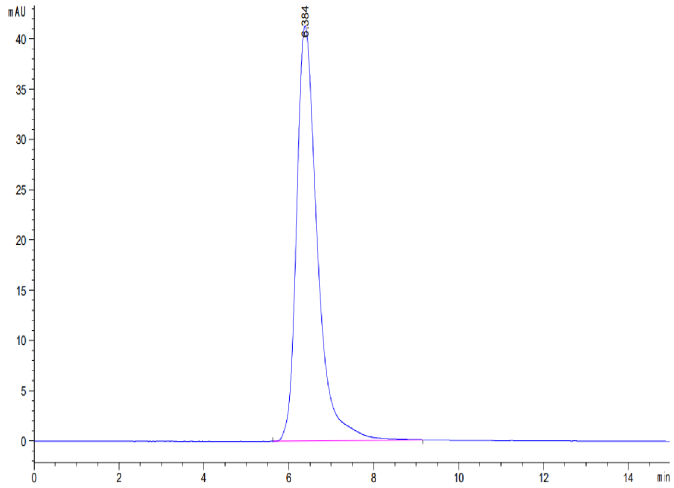
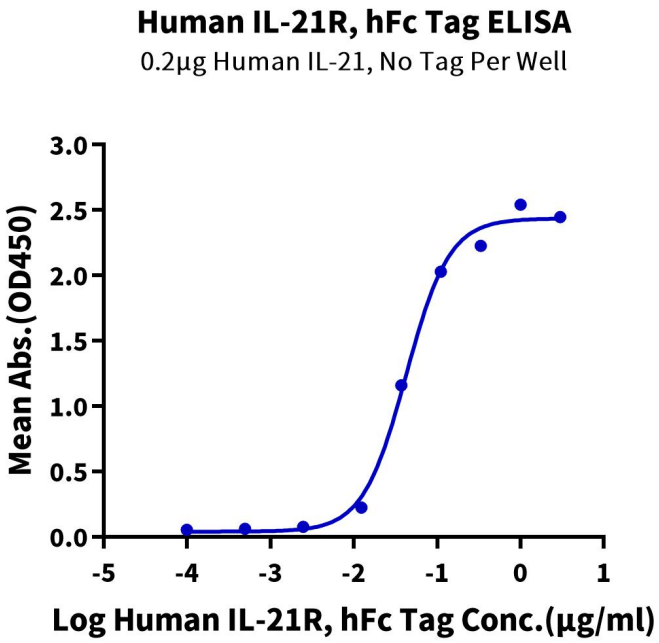
Assay Data



The purity of Human IL-21R is greater than 95% as determined by SEC-HPLC.

ELISA Data



Immobilized Human IL-21, No Tag at 1μg/ml (100μl/well) on the plate. Dose response curve for Human IL-21R, hFc Tag with the EC50 of 42.3ng/ml determined by ELISA.