

# Mouse IL-21R Protein, Ultra Low Endotoxin

Cat. No. ILR-MM121-UL

## Description

<b>Source</b>	Recombinant Mouse IL-21R Protein is expressed from HEK293 with His tag at the C-terminus. It contains Cys20-His237.
<b>Accession</b>	Q9JHX3
<b>Molecular Weight</b>	The protein has a predicted MW of 26.64 kDa. Due to glycosylation, the protein migrates to 38-52 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 0.01 EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

## Formulation and Storage

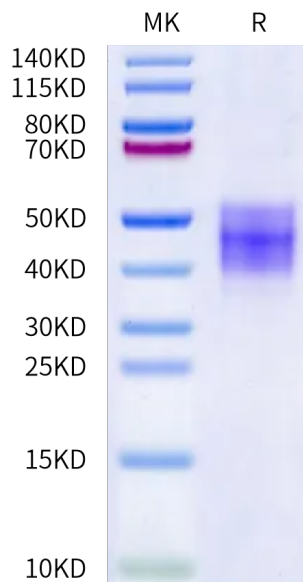
<b>Formulation</b>	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
<b>Storage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

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

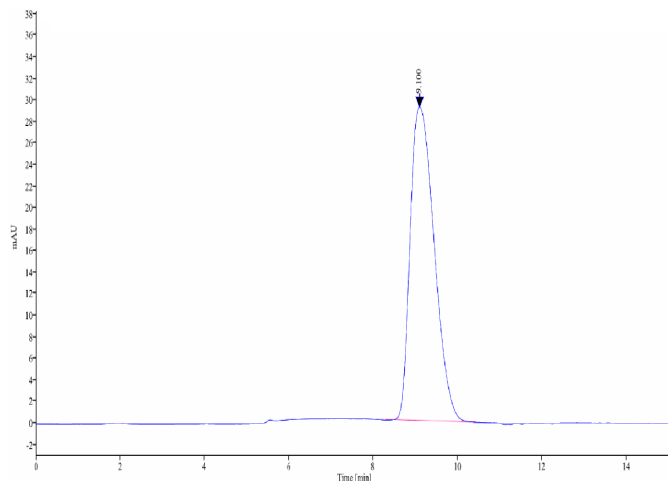
### Bis-Tris PAGE



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

### SEC-HPLC

Assay Data

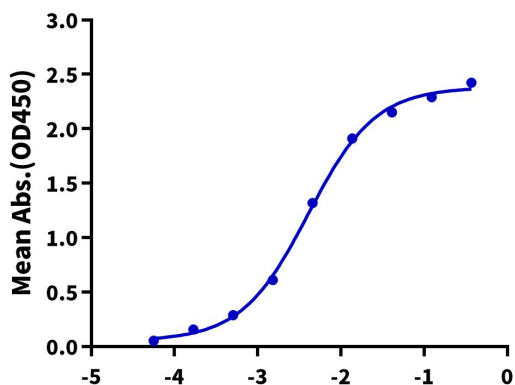


The purity of Mouse IL-21R is greater than 95% as determined by SEC-HPLC.

ELISA Data

Mouse IL-21R, His Tag ELISA

0.1µg Mouse IL-21R, His Tag Per Well



Immobilized Mouse IL-21R, His Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Mouse IL-21, His Avi Tag with the EC50 of 4.1ng/ml determined by ELISA.