

Human IL-21 Protein

Cat. No. IL2-HE021

Description

Source	Recombinant Human IL-21 Protein is expressed from E.coli without tag. It contains Gln32-Ser162.
Accession	Q9HBE4-1
Molecular Weight	The protein has a predicted MW of 15.4 kDa same as Tris-Bis PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE

Formulation and Storage

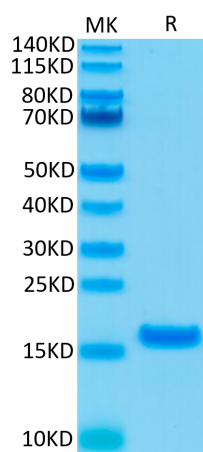
Formulation	Lyophilized from 0.22µm filtered solution in 20mM NaAc, 150mM NaCl (pH 5.5). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in 20mM NaAc, 150mM NaCl (pH 5.5).
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3-6 months 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-21 (IL-21), produced predominantly by CD4 T cells and natural killer T (NKT) cells, is a newly discovered member of the common γ -chain family of cytokines. It has been implicated in many immunological processes and has been linked to autoimmune diseases, allergies and other inflammatory diseases.

Assay Data

Tris-Bis PAGE

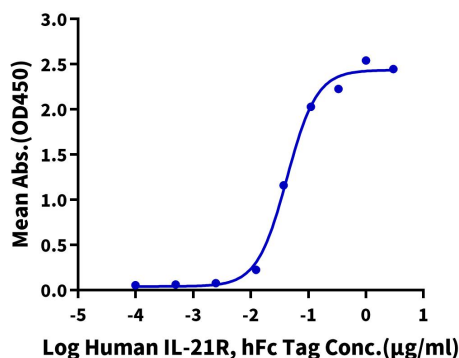


Human IL-21 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

ELISA Data

Human IL-21, No Tag ELISA

0.2µg Human IL-21, No Tag Per Well

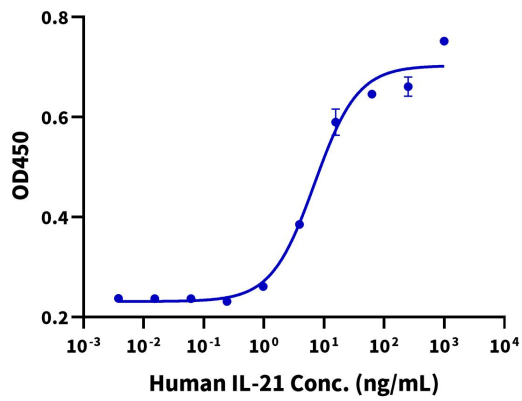


Immobilized Human IL-21, No Tag at 2µg/ml (100µl/well) on the plate. Dose response curve for Human IL-21R, hFc Tag with the EC50 of 42.3ng/ml determined by ELISA.

Assay Data

Cell Based Assay

Recombinant Human IL-21 Bioactivity



Measured by its ability to enhance IFN-gamma secretion in NK-92 human natural killer lymphoma cells. The ED50 for this effect is 1-3 ng/mL.