

# Biotinylated Mouse IL-21 Protein

Cat. No. IL2-ME421B

Description	
Source	Recombinant Biotinylated Mouse IL-21 Protein is expressed from E.coli with His tag and Avi tag at the N-Terminus. It contains His18-Ser146.
Accession	Q9ES17
Molecular Weight	The protein has a predicted MW of 17.9 kDa same as Bis-Tris PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE

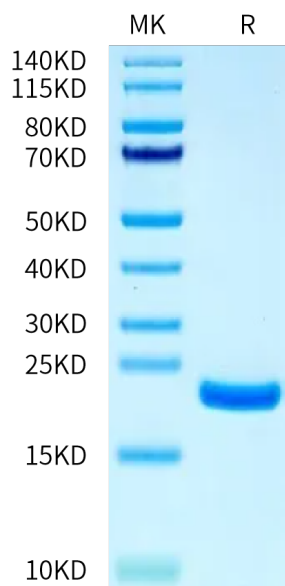
Formulation and Storage	
Formulation	Lyophilized from 0.22 µm filtered solution in 20mM NaAc, 150mM NaCl (pH 5.5). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. 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 months 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  $\gamma$ -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

### Bis-Tris PAGE



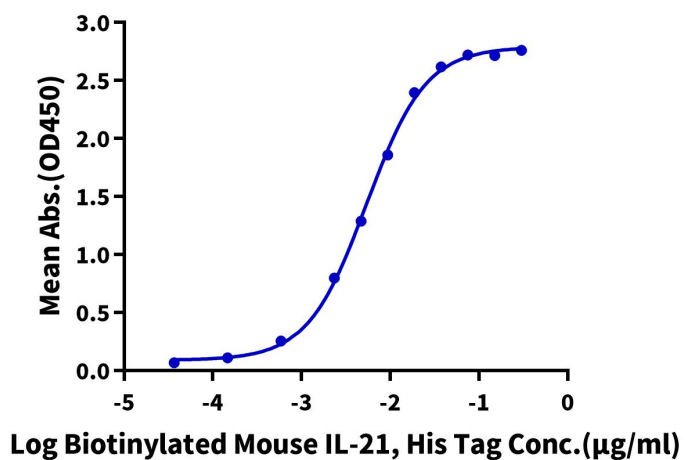
Biotinylated Mouse IL-21 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### ELISA Data

Assay Data

**Biotinylated Mouse IL-21, His Tag ELISA**

0.1µg Human IL-21R, hFc Tag Per Well



Immobilized Human IL-21R, hFc Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Mouse IL-21, His Tag with the EC50 of 5.4ng/ml determined by ELISA (QC Test).