

## IL-21 Protein, Mouse, Recombinant (His & Avi), Biotinylated

### General Information

Synonyms: Interleukin-21;IL-21;Za11;CVID11

Protein Construction: His18-Ser146

Species: Mouse

Expression Host: E. coli

Accession: Q9ES17

Molecular Weight: 17.9 kDa (predicted) same as Tris-Bis PAGE result.

### QC Testing

Biological Activity: Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.

Purity: > 95% as determined by Tris-Bis PAGE

Endotoxin: < 1 EU/μg by the LAL method.

Formulation: Supplied as 0.22 μm filtered solution in 20 mM NaAc, 150 mM NaCl (pH 5.5).

### Preparation and Storage

#### Stability & Storage:

It is recommended to store the product under sterile conditions at -70°C or lower. Samples are stable for up to 12 months at -80°C. Please avoid multiple freeze-thaw cycles and store products in aliquots.

#### Shipping:

Shipping with blue ice.

### Protein 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.

#### Reference

Sim GC, Radvanyi L. The IL-2 cytokine family in cancer immunotherapy. *Cytokine Growth Factor Rev.* 2014 Aug;25(4):377-90. doi: 10.1016/j.cytogfr.2014.07.018. Epub 2014 Aug. PMID: 25200249.

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