

Recombinant Mouse IL-21 Protein

Catalog No.: RP02775S

Sequence Information

Species **Gene ID**
Mouse 60505

Swiss Prot **Tags**
Q9ES17 C-His

Synonyms
Interleukin-21, IL-21, IL21

Product Information

Source **Purification**
CHO Cells ≥ 85 % as
 determined by
 SDS-PAGE.

Calculated MWObserved MW
15.43 kDa 18-25 kDa

Endotoxin
< 1 EU/μg of the protein by LAL
method.

Formulation
Lyophilized from a 0.22 μm filtered
solution of PBS, pH 7.4.

Reconstitution
Centrifuge the vial before opening.
Reconstitute to a concentration of
0.1-0.5 mg/mL in sterile distilled
water. Avoid vortex or vigorously
pipetting the protein. For long
term storage, it is recommended
to add a carrier protein or stabilizer
(e.g. 0.1% BSA, 5% HSA, 10% FBS
or 5% Trehalose), and aliquot the
reconstituted protein solution to
minimize free-thaw cycles.

Background

IL21 belongs to the IL-15/IL-21 family. It is a cytokine with immunoregulatory activity. Cytokines are proteinaceous signaling compounds that are major mediators of the immune response. They control many different cellular functions including proliferation, differentiation, and cell survival/apoptosis but are also involved in several pathophysiological processes including viral infections and autoimmune diseases. Cytokines are synthesized under various stimuli by a variety of cells of both the innate (monocytes, macrophages, dendritic cells) and adaptive (T- and B-cells) immune systems. IL21 is expressed in activated CD4-positive T-cells but not in CD8-positive T-cells, B-cells, or monocytes. It may promote the transition between innate and adaptive immunity. IL-21 has been tried as a therapy for alleviating allergic responses. It can significantly decrease pro-inflammatory cytokines produced by T cells in addition to decreasing IgE levels in a mouse model for rhinitis (nasal passage inflammation).

Basic Information

Description

Recombinant Mouse IL-21 Protein is produced by CHO Cells expression system. The target protein is expressed with sequence (Ser21-Ser146) of Mouse IL-21 (Accession #NP_068554.1) fused with a His tag at the C-terminus.

Activity

Measured by its ability to induce Interferon gamma secretion by human natural killer lymphoma NK-92 cells. The ED₅₀ for this effect is 3.18-12.71 ng/mL, corresponding to a specific activity of 7.87×10⁴~3.15×10⁵ units/mg.

Shipping

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

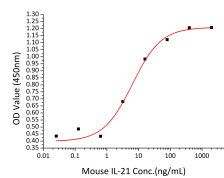
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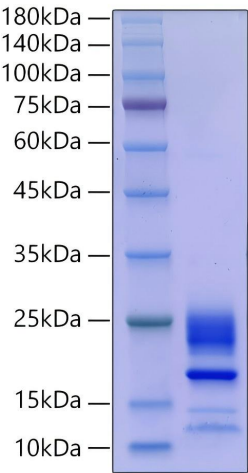
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Validation Data



Measured by its ability to induce Interferon gamma secretion by human natural killer lymphoma NK-92 cells. The ED₅₀ for this effect is 3.18-12.71 ng/mL, corresponding to a specific activity of 7.87×10⁴~3.15×10⁵ units/mg.



Recombinant Mouse IL-21 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.