

IL-21

Catalog # PVGS1431

Specification

IL-21 - Product Information

Primary Accession
Species
Mouse

Q9ES17-1

Sequence

Pro25-Ser146, expressed with an N-terminal Met

Purity

> 98% as analyzed by SDS-PAGE

Endotoxin Level

< 0.2 EU/ μg of protein by gel clotting method

Biological Activity

ED₅₀ < 1.0 ng/ml, measured by its ability to stimulate the proliferation of human ANBL-6 cells, corresponding to a specific activity of > $1.0 \times 10 < \text{sup} > 6 < /\text{sup} > \text{ units/mg}$.

Expression System

E. coli

Formulation

Lyophilized after extensive dialysis against PBS.

Reconstitution

It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in ddH₂O or PBS up to 100 µg/ml.

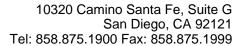
Storage & Stability

Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

IL-21 - Additional Information

Target Background

Interleukin-21 (IL-21) belongs to the Type I four helix bundle cytokines, and shares the common cytokine receptor γ chain with IL-2, IL-4, IL-7, IL-9, and IL-15. IL-21 is expressed by CD4⁺ T cells, natural killer (NK) T cells, and Th17 cells. The IL-21 receptor is highly expressed on CD4⁺ and CD8⁺ B cells. IL-21 plays a pivotal role in the survival and proliferation of B cells, and their differentiation to immunoglobulin (Ig) producing cells. IL-21 regulates the production of IgG1 and IgE by B cells, and diminishes the severity of allergy and asthma. In some cases, IL-21 induces B cell apoptosis. Other roles of IL-21 include regulation of the innate immune system, implication in autoimmunity, and antitumor activity.





IL-21 - Protein Information

IL-21 - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

IL-21 - Images