

## Mouse recombinant IL-21 (Interleukin-21) protein, AF

Catalog Number: PROTQ9ES17-3

### Overview

Product Name	Mouse recombinant IL-21 (Interleukin-21) protein, AF
Description	Interleukin-21 (IL-21) belongs to the IL-15/IL-21 family, which exerts pleiotropic immune regulations. IL-21 produced primarily by natural killer T (NKT) cells, T follicular helper (TFH) cells and TH17 cells. As a pleiotropic cytokine, IL-21 has been shown to regulate both innate and humoral immunity. It has potent inhibitory activity towards the activation and maturation of granulocyte-macrophage colony-stimulating factor (GM-CSF)-induced dendritic cells (DCs). In B cells, IL-21 has a major role in the development of immunoglobulin responses. In T cells, it is required to facilitate the functional differentiation of several CD4+ T cell subsets. In addition, the ability of IL-21 to enhance the cytotoxic activity of both CD8+ T cells and NK cells makes it as a potential antitumor agent.
Size	5ug,20ug,100ug
Tag	His Tag (C-term)
Form	Lyophilized
Source	Escherichia coli
Formulation	The protein was lyophilized from a 0.2 um filtered solution containing 1X PBS, pH 7.4. If you have any concerns or special requirements, please confirm with us.

### Storage

Lyophilized protein should be stored at -20°C for 1 year. Upon reconstitution, store at 2°C to 8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10%FBS, 5%HSA or 5% trehalose solution), protein aliquots should be stored at -20°C or -80°C for 3-6 months. Avoid repeated freeze/thaw cycles.

### Purity

>95% as determined by SDS-PAGE.

### Molecular weight

The protein has a calculated MW of 15.9 kDa. The protein migrates as 16 kDa under reducing condition (SDS-PAGE analysis).

### Activity

Measure by its ability to enhance IFN gamma secretion in NK-92 cells. The ED<sub>50</sub> for this effect is 1.6 x 10<sup>3</sup> IU/mg.

### Endotoxin

<0.1 EU per 1 ug of the protein by the LAL method.

### **Amino Acid Sequence**

MHKSSPQGPDRLLIRLRLHLDIVEQLKIYENDLDPELLSAPQDVKGHCHEAAAFACFQKAKLKPSNPGNNKTFIIDLVAQLRRRLPARRGGKKQKHIACPS  
CDSYEK RTPKEFLERLKWLLQKMIHQHLS with polyhistidine tag at the C-terminus.

### **Reconstitution**

Centrifuge at 3000 rpm for 5 mins before opening. It is recommended to reconstitute the lyophilized protein in sterile H<sub>2</sub>O to a concentration not less than 100 ug/mL and incubate the stock solution at room temperature for at least 20 mins to ensure sufficient re-dissolved. Do Not Vortex!  
Vigorous shaking may impair the biological activity of the protein.

## Usage

---

Boster's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

## Submit a product review to Biocompare.com

---

Submit a review of this product to Biocompare.com to receive a \$20 Amazon giftcard! Your reviews help your fellow scientists make the right decisions. Thank you for your contribution.



Mouse recombinant IL-21 (Interleukin-21) protein, AF

For Research Use Only. Not for use in diagnostic procedures.