

**Human CellExp IL-21, human recombinant protein**  
**Human IL-21, Interleukin-21 Protein**  
**Catalog # PBV11109r****Specification****Human CellExp IL-21, human recombinant protein - Product info**Primary Accession  
Calculated MW[Q9HBE4](#)

This protein contains no "tag", has a calculated MW of 15.6 kDa. The predicted N-terminus is Gln 23. DTT-reduced Protein migrates as 20 kDa due to glycosylation. KDa

**Human CellExp IL-21, human recombinant protein - Additional Info**Gene ID  
Gene Symbol  
**Other Names**  
Human IL-21, Interleukin-21 Protein**59067**  
**IL21**Gene Source  
Source  
Assay&Purity  
Assay2&Purity2  
Recombinant  
**Target/Specificity**  
IL-21**Human**  
**HEK293 cells**  
**SDS-PAGE; ≥92%**  
**N/A;**  
**Yes****Application Notes**

Centrifuge the vial prior to opening. Reconstitute in sterile PBS, pH 7.4 to a concentration of 50 µg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 month. For extended storage, it is recommended to store at -20°C.

**Format**

Lyophilized

**Storage**

-20°C; Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally Mannitol or Trehalose is added as protectants before lyophilization.

**Human CellExp IL-21, human recombinant protein - Protocols**

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)

- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### **Human CellExp IL-21, human recombinant protein - Images**

### **Human CellExp IL-21, human recombinant protein - Background**

Interleukin-21 (IL-21) is a secreted protein which belongs to the IL-15 / IL-21 family. Interleukin-21 / IL-21 belongs to a family of cytokines that bind to a composite receptor consisting of a private receptor (IL21R) and the common cytokine receptor gamma chain (gamma(C)). Interleukin-21 / IL-21 impacts a number of cell types, including CD8+ memory T cells, NK cells and subsets of CD4 memory T cells. The IL-21R is widely distributed on lympho-haematopoietic cells. IL-21 is a pleiotropic cytokine produced by CD4+ T cells in response to antigenic stimulation. Its action generally enhances antigen-specific responses of immune cells. IL-21 promotes the anti-tumor activity of CD8+ T-cells and NK cells. IL-21 exerts its effect through binding to a specific type I cytokine receptor, IL-21R, which also contains the  $\gamma$  chain ( $\gamma c$ ) found in other cytokine receptors including IL-2, IL-4, IL-7, IL-9 and IL-15. The IL-21/IL-21R interaction triggers a cascade of events which includes activation of the tyrosine kinases JAK1 and JAK3, followed by activation of the transcription factors STAT1 and STAT3.

### **Human CellExp IL-21, human recombinant protein - References**

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Rahman M., et al. FEBS Lett. 581:4001-4009(2007).  
Hillier L.W., et al. Nature 434:724-731(2005).  
Strengell M., et al. J. Leukoc. Biol. 76:416-422(2004).  
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