

IL-21, murine recombinant protein
IL-21, Interleukin 21
Catalog # PBV10165r**Specification**

IL-21, murine recombinant protein - Product info

Primary Accession [O9ES17](#)
Calculated MW **15.095 kDa KDa**

IL-21, murine recombinant protein - Additional Info

Gene ID **60505**
Gene Symbol **IL21**
Other Names
Za11, IL-21, Interleukin-21

Gene Source **Mouse**
Source **E. coli**
Assay&Purity **SDS-PAGE; ≥95%**
Assay2&Purity2 **HPLC; ≥95%**
Recombinant **Yes**
Target/Specificity
IL-21

Application Notes

When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile H₂O to a concentration of 0.1 mg/ml, which can be further diluted into other aqueous solutions.

Format

Lyophilized protein

Storage

-20°C; Lyophilized from 20 mM NaHCO₃, pH 8.5

IL-21, murine 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](#)

IL-21, murine recombinant protein - Images**IL-21, murine recombinant protein - Background**

Mouse Interleukin-21 (m-IL-21), expressed by activated CD4(+) T cells, is the newest member of the common gamma-chain family of cytokines, which also includes IL-2, IL-4, IL-7, IL-9, and IL-13. Its private receptor, IL-21R, is expressed on T, B, and NK cells. Within the B cell lineage, IL-21 regulates IgG1 production and cooperates with IL-4 for the production of multiple Ab classes in vivo. IL-21R has been shown to activate the Janus kinase/signal transducers and activators of transcription signaling pathways upon ligand binding. Initial studies have demonstrated that IL-21 has pleiotropic effects on the proliferation, the differentiation, and the effector functions of B, T, natural killer, and dendritic cells. Recombinant mouse IL-21, produced in E.coli, is a single, non-glycosylated polypeptide chain containing 130 amino acids and having a total molecular mass of 15,095 Daltons.

IL-21, murine recombinant protein - References

Parrish-Novak J., et al. Nature 408:57-63(2000).
Guobing C., et al. Submitted (OCT-2003) to the EMBL/GenBank/DDBJ databases.
Kasaian M.T., et al. Immunity 16:559-569(2002).
Brandt K., et al. Blood 102:4090-4098(2003).
Pene J., et al. J. Immunol. 172:5154-5157(2004).