

Recombinant human IL-21 protein

Catalog Number: ATGP3861

PRODUCT INFORMATION

Expression system

E.coli

Domain

30-162 aa

UniProt No.

Q9HBE4

NCBI Accession No.

NP_068575

Alternative Names

Interleukin-21 isoform 1, CVID11, IL-21, Za11

PRODUCT SPECIFICATION

Molecular Weight

15.5 kDa (134aa) confirmed by MALDI-TOF

Concentration

0.25mg/ml (determined by absorbance at 280nm)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4)

Purity

> 95% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Biological Activity

The activity is determined by the IFN-g ELISA in a using NK-92 human natural killer cells. The ED50 range \leq 4ng/ml.

Tag

Non-Tagged

Application

SDS-PAGE, Bioactivity

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Recombinant human IL-21 protein

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Description

IL-21, also known as Interleukin-21, is a T-helper cytokine that regulates humoral immunity and cell-mediated anti-tumor responses. It has broad immunoregulatory activity and can modulate both humoral and cell-mediated responses. It is important in the regulation of haematopoiesis and immune responses, and can influence lymphocyte development. It is produced by activated T cell, and it influences proliferation of T and B cells and cytolytic activity of natural killer cells. It may be a critical factor in the control of persistent viral infections. It has a potential predicating significance for survival Time in patients in the development of sporadic CRC. It binds to the IL-21R and can activate janus kinase JAK1, JAK3, STAT1, and STAT3 in EDgamma-16 cells. Recombinant human IL-21, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

MQGQDRHMIR MRQLIDIVDQ LKNYVNDLVP EFLPAPEDVE TNCEWSAFSC FQKAQLKSAN TGNNERIINV SIKKLRKPP
STNAGRRQKH RLTCPCDSY EKKPPKEFLE RFKSLLQKMI HQHLSSRTHG SEDS

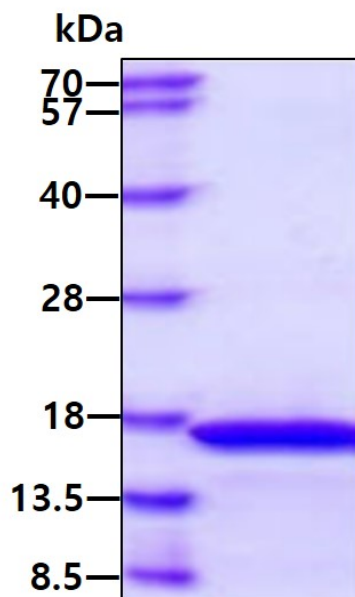
General References

Gui G., et al. (2017) Clin Immunol. 183:266-272.
Parrish-Novak J., et al. (2000) Nature. 408(6808):57-63.

DATA

SDS-PAGE

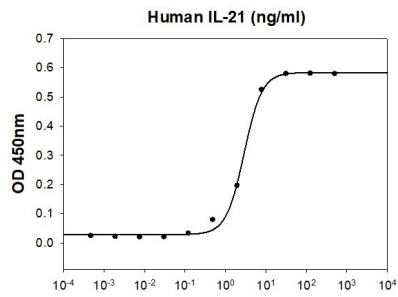
3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.



Biological Activity

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Human IL-21 stimulates IFN-g secretion of the NK-92 human natural killer cells. The ED50 range ≤ 4 ng/ml.