

Recombinant Animal Free Human IL-21 Protein

Catalog Number: ATGP3927

PRODUCT INFORMATION

Expression system

E.coli

Domain

30-162aa

UniProt No.

Q9HBE4

NCBI Accession No.

NP_068575

Alternative Names

Interleukin-21

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- γ ELISA in a using NK-92 human natural killer cells. The ED50 range \leq 4 ng/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 Animal Free 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. Produced using non-animal reagents in an animal-free laboratory

Amino acid Sequence

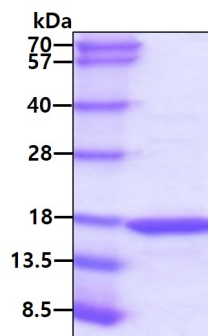
MQGQDRHMIR MRQLIDIVDQ LKNYVNDLVP EFLPAPEDVE TNCEWSAFSC FQKAQLKSAN GNNERIINV SIKKLKRKPP STNAGRRQKH RLTCPCDSY EKKPPKEFLE RFKSLLQKMI HQHLSSRTHG SEDS

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

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

