Recombinant human IL-21 protein

Catalog Number: ATGP3802

PRODUCT INFORMATION

Expression system
Baculovirus

Domain
30-162aa

UniProt No.
Q9HBE4

NCBI Accession No.
NP_068575

Alternative Names
Interleukin-21 isoform 1, IL21, CVID11, IL-21, Za11

PRODUCT SPECIFICATION

Molecular Weight
16.9 kDa (145aa)

Concentration
0.25mg/ml (determined by Bradford assay)

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 20% glycerol

Purity
> 85% 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 cell. The ED50 range ≤ 10ng/ml.

Tag
His-Tag

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

Description
IL21, also known as interleukin-21 isoform 1, is a T-helper cytokine that regulates humoral immunity and cell-

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mediated anti-tumour 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 cells, 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 IL21, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

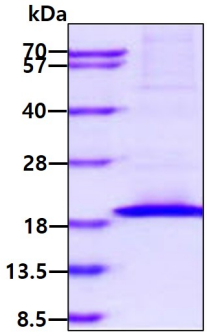
<ADPEFM>QGQD RHMIRMRQLI DIVDQLKNYV NDLVPEFLPA PEDVETNCEW SAFSCFQKAQ LKSANTGNNE RIINVSIKKL KRKPPSTNAG RRQKHRLTCP SCDSYEKKPP KEFLERFKSL LQKMIHQHLS SRTHGSEDS<H HHHHH>

General References

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

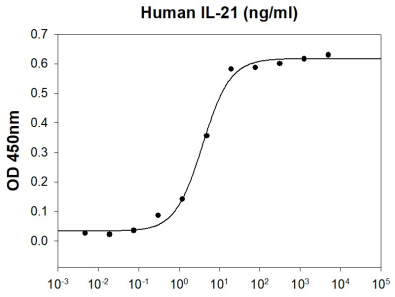
DATA

SDS-PAGE



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

Biological Activity



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