

# Recombinant human IL-22 protein

Catalog Number: ATGP3842

## PRODUCT INFORMATION

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### Expression system

Baculovirus

### Domain

34-179aa

### UniProt No.

Q9GZX6

### NCBI Accession No.

NP\_065386

### Alternative Names

Interleukin-22, IL22, IL-21, IL-22, IL-D110, IL-TIF, ILTIF, TIFa, TIFIL-23, zcyto18, Macrophagleukin-22, IL22, 2

## PRODUCT SPECIFICATION

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### Molecular Weight

17.8 kDa (155aa)

### Concentration

1mg/ml (determined by absorbance at 280nm)

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

### Purity

> 90% by SDS-PAGE

### Endotoxin level

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

### Biological Activity

The activity is determined by the IL-10 ELISA in a using COLO 205 human colorectal adenocarcinoma cells. The ED50 range  $\leq 1.2$ ng/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

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# Recombinant human IL-22 protein

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## Description

IL22, also known as interleukin-22, is a member of a group of cytokines involved the IL-10 family or IL-10 subfamily. This protein shares us of IL-10R2 in cell signaling with other members of this family, IL-10, IL-26, IL-28A/B and IL-29. It is produced by normal T cells upon anti-CD3 stimulation and initiates innate immune responses against bacterial pathogens especially in epithelial cells such as respiratory and gut epithelial cells. Also, it can be produced by Th17 cells and play a role in the coordinated response of both adaptive and innate immune systems. Biological activity of IL-22 is the functional receptor complex consists of two receptor subunits, IL-22R and IL-10R and is further regulated by interactions with a soluble binding protein, IL-22BP, which shares sequence similarity with an extracellular region of IL-22R1. Recombinant human IL22, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

## Amino acid Sequence

<ADP>APISSHC RLDKSNFQQP YITNRTFMLA KEASLADNNT DVRLIGEKLF HGVSMSERCY LMKQVLNFTL EEVLFPQSDR FQPYMQEVVP FLARLSNRLS TCHIEGDDLH IQRNVQKDKD TVKKLGESGE IKAIGELDLL FMSLRNACI<H HHHHH>

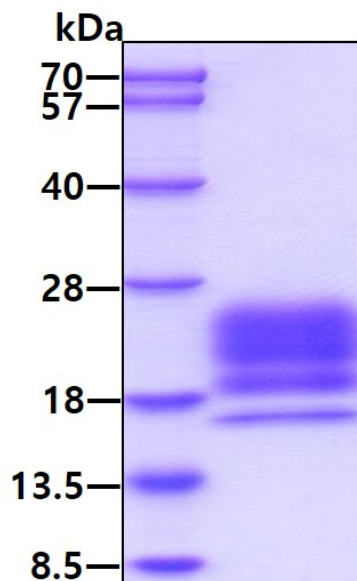
## General References

Kontenko SV., et al, (2001) J. Biol. Chem. 276:2725-2732.

Xie MH., et al, (2000) J. Biol. Chem. 275:31335-31339.

## DATA

### SDS-PAGE

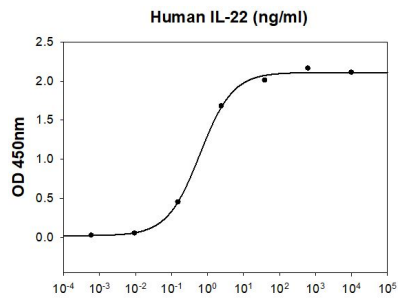


3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

## Biological Activity

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