

# Recombinant human IL-17A protein

Catalog Number: ATGP3083

## PRODUCT INFORMATION

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### Expression system

Baculovirus

### Domain

24-155aa

### UniProt No.

Q16552

### NCBI Accession No.

NP\_002181.1

### Alternative Names

Interleukin 17A, IL-17, IL-17A, IL17, CTLA8, Cytotoxic T-lymphocyte-associated protein 8, Cytotoxic T-lymphocyte-associated serine esterase 8

## PRODUCT SPECIFICATION

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### Molecular Weight

15.9 kDa (138aa)

### Concentration

0.25mg/ml (determined by Bradford assay)

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 20% glycerol, 1mM EDTA, 0.1mM PMSF

### 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-6 ELISA in a using NIH/3T3 mouse embryonic fibroblast cells. The ED50 range  $\leq$  7 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.

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## BACKGROUND

### Description

IL17A, also known as Interleukin 17, is a cytokine that acts as a potent mediator in delayed-type reactions by increasing chemokine production in various tissues to recruit monocytes and neutrophils to the site of inflammation. It is produced by T-helper cells and is induced by IL23 which results in destructive tissue damage in delayed-type reactions. This protein is a 155 amino acid protein that is a disulfide-linked, homodimeric, secreted glycoprotein with a molecular mass of 35kDa. The structure of IL17A consists of a signal peptide of 23 amino acids followed by a 123 aa chain region characteristic of the IL17 family. An N-linked glycosylation site on the protein was first identified after purification of the protein revealed two bands, one at 15kDa and another at 20kDa. Recombinant human IL17A, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

### Amino acid Sequence

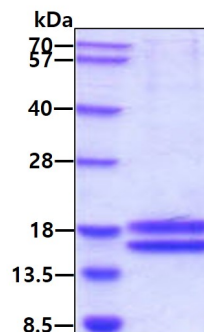
GITIPRNP GC P NSEDKNFPR TVMVNLNIHN RNTNTNPKRS SDYYNRSTSP WNLHRNEDPE RYPSVIWEAK CRHLGCINAD  
GNVDYHMNSV PIQQEILVLR REPPHCPNSF RLEKILVSVG CTCVTPIVHH VA<HHHHHH>

### General References

Yao Z, et al (1995) J Immunol. 155(12):5483-6.

## DATA

### SDS-PAGE



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

### Biological Activity

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Human IL-17A stimulates IL-6 secretion of the NIH/3T3 mouse embryonic fibroblast cells. The ED50 range  $\leq 7$  ng/ml.

