

# Recombinant mouse IL-17A protein

Catalog Number: ATGP4120

## PRODUCT INFORMATION

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### Expression system

Baculovirus

### Domain

26-158aa

### UniProt No.

Q62386

### NCBI Accession No.

NP\_034682.1

### Alternative Names

Interleukin-17A, IL17A, IL-17, IL-17A, I17, Cytotoxic T-lymphocyte-associated antigen 8. Ctla-8, CtlA8

## PRODUCT SPECIFICATION

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### Molecular Weight

16kDa (141aa)

### Concentration

0.5mg/ml (determined by absorbance at 280nm)

### Formulation

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

### 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 IL-6 ELISA in a using NIH/3T3 mouse embryonic fibroblast cells. The ED50 range  $\leq$  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 mouse IL-17A protein

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## Description

IL-17A, also known as CTLA-8, is a cytokine that belongs to the Interleukin-17 family. It produced by activated T cells and plays an important role in anti-microbial and chronic inflammation. Mouse IL-17A shares 61% amino acid sequence identity with human IL-17A. It promotes protective mucosal and epidermal inflammation in response to microbial infection and induces chemokine production, neutrophil influx, and the production of antibacterial peptides. It can stimulate the expression of IL-6 and PTGS2/COX-2, as well as enhance the production of nitric oxide(NO). High levels of IL-17 are associated with several chronic inflammatory diseases including rheumatoid arthritis, psoriasis, and multiple sclerosis. Also, IL-17A has been shown to exert either tumorigenic or anti-tumor effects. Recombinant mouse IL-17A, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

## Amino acid Sequence

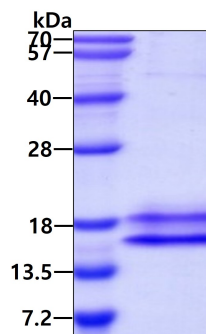
AAIIPQSSAC PNTEAKDFLQ NVKVNLIKVFN SLGAKVSSRR PSDYLNKSTS PWTLHRNEDP DRYPSVIWEA QCRHQRCVNA EGKLDHHMNS VLIQQEILVL KREPESCPFT FRVEKMLVGV GCTCVASIVR QAA<LEHHHHH H>

## General References

Yao Z., et al. (1995) J. Immunol. 155:5483-5436.  
Kennedy J., et al. (1996) J. Interferon Cytokine Res. 16:611-617.

## DATA

### SDS-PAGE



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

### Biological Activity

Mouse IL-17A stimulates IL-6 secretion of the NIH/3T3 mouse embryonic fibroblast cells. The ED50 range  $\leq 2$  ng/ml.

