

# Recombinant canine IL-17A protein

Catalog Number: ATGP4068

## PRODUCT INFORMATION

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### Expression system

HEK293

### Domain

29-155aa

### UniProt No.

C6L8D7

### NCBI Accession No.

NP\_001159350.1

### Alternative Names

IL17A, IL17, IL-17A, Interleukin 17A, Interleukin-17A, cytotoxic T-lymphocyte-associated serine esterase 8, CTLA-8, CTLA8

## PRODUCT SPECIFICATION

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### Molecular Weight

15.6kDa (133aa)

### Concentration

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

### Formulation

Liquid. In Phosphate-Buffered Saline (pH 7.4) containing 20% 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-6 ELISA in a using NIH/3T3 mouse embryonic fibroblast cells. The ED50 range  $\leq$  10 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

IL-17A, also known as CTLA8, is a member of the IL-17 family of cytokines. This family demonstrate a structural motif termed a cysteine knot that also characterizes a large superfamily of growth factors. The IL-17 family of cytokines includes six members, IL-17A, IL-17B, IL-17C, IL-17D, IL-17E/IL-25, and IL-17F. IL-17A main function is stimulates production of IL-6, prostaglandin E and nitric oxide. And other inflammatory cytokines(TNF-alpha, IL-1 beta and IFN -gamma) leads to up-regulation of gene expression and progression and amplification of local inflammation. In addition, it serves induction of co-stimulatory molecules such as ICAM-1 and other cytokines, thereby supporting T cell activation. IL-17 expression has been associated with several chronic inflammatory diseases including rheumatoid arthritis, psoriasis and multiple sclerosis. Recombinant canine IL-17A, fused to His-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.

### Amino acid Sequence

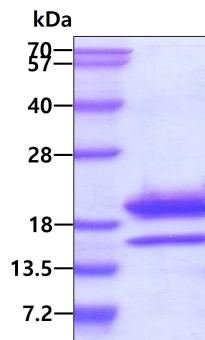
FPQNPGRNT EDKNFPQHVK VNLNILNRNT NSRRPSDYIN RSTSPWNLHR NEDPERYPSV IWEAKCRHLG CVNNEGNINY HMNSVPIQQE ILVLRRESQH CPHSFRLEKM LVAVGCTCVT PIVRHVA<HHH HHH>

### General References

Moseley TA., et al, (2003) Cytokine & Growth Factor Reviews. 14: 155-174.  
Afzali, B. et al. (2007) Clin. Exp. Immunol. 148:32-46.  
Fossiez, F. et al. (1996) J. Exp. Med. 183:2593-2603.

## DATA

### SDS-PAGE



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

### Biological Activity

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Canine IL-17A stimulates IL-6 secretion of the NIH/3T3 mouse embryonic fibroblast cells. The ED50 range  $\leq 10$  ng/ml.

