

# Recombinant canine IL-5 protein

Catalog Number: ATGP3985

## PRODUCT INFORMATION

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### Expression system

Baculovirus

### Domain

22-134aa

### UniProt No.

Q95J76

### NCBI Accession No.

NP\_001006951

### Alternative Names

Interleukin-5, Eosinophil differentiation factor, T-cell replacing factor, TRF, EDF

## PRODUCT SPECIFICATION

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### Molecular Weight

13.9kDa (119aa)

### Concentration

0.25mg/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

Measured in a cell proliferation assay using TF-1 human erythroleukemic cell. The ED50 range  $\leq$  15 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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### Description

IL-5, also known as interleukin-5, is a member of the hematopoietin receptor superfamily and is comprised of a

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cytokine-specific alpha chain and the common beta chain that is shared among these cytokines for signaling. Through binding to the IL-5 receptor, IL-5 stimulates B cell growth and increases immunoglobulin secretion. It related hematopoietic cytokines that are important for allergic inflammation. It is a lineage-specific cytokine for eosinophilpoiesis and plays an important part in diseases associated with increased eosinophils, such as asthma. Recombinant canine IL-5, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques

## Amino acid Sequence

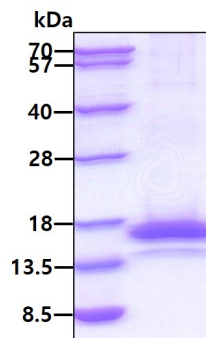
VENPMNRLVA ETLTLLSTHR TWLIGDGNLM IPTPENKNHQ LCIKEVFQGI DTLKNQTAHG EAVDKLFQNL SLIKEHIERQ KKRCAGERWR VTKFLDYLQV FLGVINTEWT PES<HHHHHH>

## General References

Martinez-Moczygamba M., et al. (2003) J Allergy Clin Immunol. 112:653-665.  
 Milburn MV., et al. (1993) Nature. 363:172-176.

## DATA

### SDS-PAGE



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

### Biological Activity

Canine IL-5 in a cell proliferation assay using TF-1 human erythroleukemic cell. The ED50 range  $\leq$  15 ng/ml.

