

# Recombinant human IL-34 protein

Catalog Number: ATGP3796

## PRODUCT INFORMATION

---

### Expression system

Baculovirus

### Domain

21-242aa

### UniProt No.

Q6ZMJ4

### NCBI Accession No.

NP\_689669.1

### Alternative Names

Interleukin-34 isoform 1, IL34, C16orf77, IL-34

## PRODUCT SPECIFICATION

---

### Molecular Weight

26.3 kDa (231aa)

### Concentration

0.25mg/ml (determined by absorbance at 280nm)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.5) containing 1mM DTT, 0.15M NaCl, 0.1mM PMSF, 1mM EDTA, 30% glycerol

### Purity

> 90% by SDS-PAGE

### Endotoxin level

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

### Tag

His-Tag

### Application

SDS-PAGE

### 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

---

### Description

IL34, also known as interleukin-34 isoform 1, is a secreted cytokine. This protein is expressed in a variety of tissues richest in the spleen and stimulates the proliferation of monocytes. In a functional study, IL-34, such as CSF-1, another ligand for CSF-1R, stimulated phosphorylation of extracellular signal-regulated kinase-1 and -2 (ERK1 / 2) in human monocytes. In addition, it promoted the formation of macrophage precursor colonization

# Recombinant human IL-34 protein

Catalog Number: ATGP3796

units-macrophages (CFU-M) in human bone marrow cultures. Recombinant human IL34, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

## Amino acid Sequence

<ADP>NEPLEMW PLTQNEECTV TGFLRDKLQY RSRLQYMKHY FPINYKISVP YEGVFRIANV TRLQRAQVSE RELRYLWVLV  
SLSATESVQD VLLEGHPSWK YLQEVQTL L NVQQGLTDVE VSPKVESVLS LLNAPGPNLK LVRPKALLDN CFRVMELLYC  
SCCKQSSVLN WQDCEVPSQ SCSPEPSLQY AATQLYPPPP WSPSSPPHST GSVRPVRAQG EGLLP<HHHHH H>

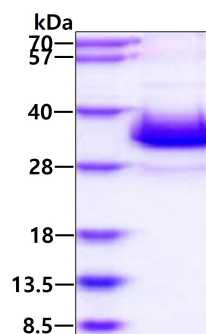
## General References

Franze E, et al. (2015) Clin Sci (Lond). 129:271-280.

Lin, H., et al. (2008) Science 320:807-811.

## DATA

### SDS-PAGE



3 $\mu$ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.