## **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



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**

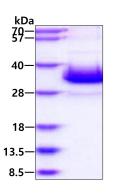
<ADP>NEPLEMW PLTQNEECTV TGFLRDKLQY RSRLQYMKHY FPINYKISVP YEGVFRIANV TRLQRAQVSE RELRYLWVLV SLSATESVQD VLLEGHPSWK YLQEVQTLLL NVQQGLTDVE VSPKVESVLS LLNAPGPNLK LVRPKALLDN CFRVMELLYC SCCKQSSVLN WQDCEVPSPQ SCSPEPSLQY AATQLYPPPP WSPSSPPHST GSVRPVRAQG EGLLP<HHHHH H>

## **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**



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

