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# Recombinant human IL-4 protein

Catalog Number: ATGP3421

## **PRODUCT INFORMATION**

## **Expression system**

E.coli

#### **Domain**

25-153aa

#### UniProt No.

P05112

### **NCBI Accession No.**

NP 000580.1

# **Alternative Names**

Pitrakinra, MGC79402, Lymphocyte stimulatory factor 1, Interleukin-4 isoform 1, Interleukin 4, IL-4, BSF1, Binetrakin, BCGF1, B-cell stimulatory factor 1, B-cell growth factor 1, BCDF

# **PRODUCT SPECIFICATION**

# **Molecular Weight**

15 kDa (130aa)

### Concentration

1mg/ml (determined by BCA assay)

### **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**

Measured in a cell proliferation assay using TF-1 human erythroleukemic cells. The ED50 range ≤0.6ng/ml.

## Tag

Non-Tagged

## **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 human IL-4 protein

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## **Description**

IL4, also known as Interleukin 4 isoform1, is a pleiotropic cytokine that has many biological roles, including the stimulation of activated B-cell and T-cell proliferation, and the differentiation of naive helper T-cell to Th2 cells. IL4 is a co-stimulator of DNA-synthesis and is induces the expression of class II MHC molecules on resting B-cells. It also enhances both secretion and cell surface expression of IgE and IgG1. Recombinant human IL4, was expressed in E. coli and purified by using conventional chromatography techniques.

# **Amino acid Sequence**

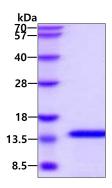
MHKCDITLQE IIKTLNSLTE QKTLCTELTV TDIFAASKNT TEKETFCRAA TVLRQFYSHH EKDTRCLGAT AQQFHRHKQL IRFLKRLDRN LWGLAGLNSC PVKEANQSTL ENFLERLKTI MREKYSKCSS

## **General References**

Van Kimmenade A., et al (1988). Eur J Biochem. 173(1): 109-14 Yokota T., et al (1986). Proc. Nati. Acad. Sci. USA. 83(16): 5894-8

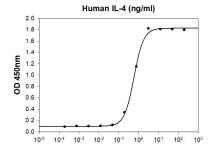
## **DATA**

### **SDS-PAGE**



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

# **Biological Activity**



Human IL-4 stimulates cell proliferation of the TF-1 human erythroleukemic cells. The ED50 range  $\leq$ 0.6 ng/ml.

