

# Recombinant human IL-3 protein

Catalog Number: ATGP3365

## PRODUCT INFORMATION

---

### Expression system

Baculovirus

### Domain

20-152aa

### UniProt No.

P08700

### NCBI Accession No.

NP\_000579

### Alternative Names

IL-3, Multipotential colony-stimulating factor(multi-CSF), Mast cell growth factor(MCGF), Interleukin 3 (colony-stimulating factor, multiple), MuLTI-CSF, MCGF, Multilineage-colony-stimulating factor, Hematopoietic growth factor, P-cell stimulating factor, Mast-cell growth factor

## PRODUCT SPECIFICATION

---

### Molecular Weight

16.1 kDa (141aa)

### Concentration

0.5mg/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 cells. The ED50 range  $\leq 0.2$ 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.

# Recombinant human IL-3 protein

Catalog Number: ATGP3365

## BACKGROUND

### Description

IL3, as known as interleukin 3, is a pleiotropic factor produced primarily by activated T cells that can stimulate the proliferation and differentiation of pluripotent hematopoietic stem cells as well as various lineage committed progenitors. Also, this protein affects the functional activity of mature mast cells, basophils, eosinophils and macrophages. Because of its multiple functions and targets, it was originally studied under different names, including mast cell growth factor, P-cell stimulation factor, burst promoting activity, multi-colony stimulating factor, thy-1 inducing factors and WEHI-3 growth factor. Recombinant human IL3, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

### Amino acid Sequence

APMTQTTSLK TSWVNCSNMI DEIITHLKQP PLPLDFNLL NGEDQDILME NNLRRPNLEA FNRAVKSLQN ASAIESILKN  
LLPCLPLATA APTRHPIHIK DGDWNEFRRK LTFYLKTLN AQAQQTLSL AIF<LEHHHHH H>

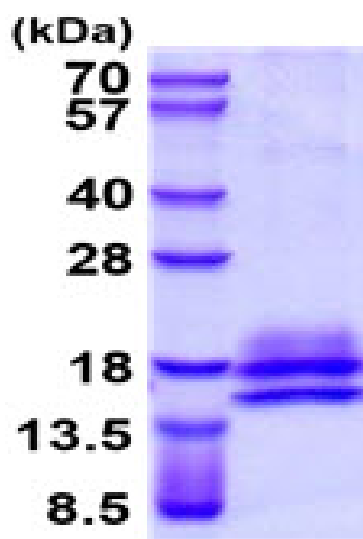
### General References

Chavany,C., et al. (1998) Proc. Natl. Acad. Sci. U.S.A. 95:11354-11359.

Otsuka,T., et al. (1988) J. Immunol. 140:2288-2295.

## DATA

### SDS-PAGE



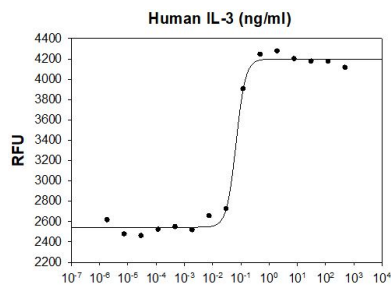
3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)

### Biological Activity

# Recombinant human IL-3 protein

Catalog Number: ATGP3365



Measured in a cell proliferation assay using TF-1 human erythroleukemic cells. The ED50 range  $\leq 0.2$  ng/ml.