

# Recombinant Human IL-4 (C-6His)

Catalog # EPT247

**Expression Host** Human Cells

**DESCRIPTION** Recombinant Human Interleukin-4 is produced by our

Mammalian expression system and the target gene

encoding His25-Ser153 is expressed with a 6His tag at

the C-terminus.

Accession P05112

**Synonyms** Interleukin-4; IL-4; B-Cell Stimulatory Factor 1; BSF-1;

Binetrakin; Lymphocyte Stimulatory Factor 1;

Pitrakinra: IL4

Mol Mass 16 KDa

**AP Mol Mass** 18 KDa, reducing conditions

**Purity** Greater than 95% as determined by reducing

SDS-PAGE.

**Endotoxin** Less than 0.1 ng/μg (1 EU/μg) as determined by LAL

test.

**FORMULATION** Lyophilized from a 0.2 µm filtered solution of PBS, pH

7.4.



www.elkbiotech.com



#### RECONSTITUTION

Always centrifuge tubes before opening.Do not mix by vortex or pipetting.

It is not recommended to reconstitute to a concentration less than 100µg/ml.

Dissolve the lyophilized protein in distilled water.

Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

### **SHIPPING**

The product is shipped at ambient temperature.

Upon receipt, store it immediately at the temperature listed below.

### **STORAGE**

Lyophilized protein should be stored at < -20  $^{\circ}$  C, though stable at room temperature for 3 weeks.

Reconstituted protein solution can be stored at 4-7°C for 2-7 days.

Aliquots of reconstituted samples are stable at < -20° C for 3 months.

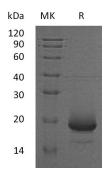
## **BACKGROUND**

Interleukin-4 (IL-4) is a pleiotropic cytokine that regulates diverse T and B cell responses including cell proliferation, survival and gene expression. IL-4 is produced by mast cells, T cells, and bone marrow stromal cells. IL-4 regulates the differentiation of naive CD4+ T cells into helper Th2 cells, characterized by





their cytokine-secretion profile that includes secretion of IL-4, IL-5, IL-6, IL-10, and IL-13, which favor a humoral immune response. Another dominant function of IL-4 is the regulation of immunoglobulin class switching to the IgG1 and IgE isotypes. Excessive IL-4 production by Th2 cells has been associated with elevated IgE production and allergic response.



## **SDS-PAGE**

