

## Active Recombinant Human IL4 Protein, Animal Free

Cat. No. IL4-36H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human IL4 Protein without tag was expressed in Human cells. Animal Free and Xeno Free
<b>Species</b>	Human
<b>Source</b>	Human Cells
<b>Description</b>	Interleukin 4 (IL-4) is a 14-19 kDa glycosylated monomer, belongs to the IL-4/IL-13 family. IL-4 is primarily expressed by Th2 biased CD4+ T cells, mast cells, basophils, and eosinophils. IL-4 is a pleiotropic cytokine that participates in at least several B-cell activation processes as well as of other cell types. It is a co-stimulator of DNA-synthesis. It induces the expression of class II MHC molecules on resting B-cells. It enhances both secretion and cell surface expression of IgE and IgG1. It also regulates the expression of the low affinity Fc receptor for IgE (CD23) on both lymphocytes and monocytes.
<b>Bio-activity</b>	The activity was measured by its ability to stimulate the proliferation of human TF-1 cells (human erythroleukemic indicator cell line).
<b>Molecular Mass</b>	14-19 kDa
<b>Endotoxin</b>	<0.5 EU/ µg
<b>Purity</b>	High Purity, >95% by SDS-PAGE

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**Stability** Use a manual defrost freezer and avoid repeated freeze-thaw cycles. In general: 12 months from date of receipt, -20 to -80 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -80 centigrade under sterile conditions after reconstitution.

**Storage Buffer** Lyophilized from a 0.2 µm filtered solution in PBS without carrier protein

**Reconstitution** Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein in sterile PBS containing 0.1% endotoxin-free recombinant human serum albumin.

## GENE INFORMATION

**Gene Name** IL4 interleukin 4 [ Homo sapiens (human) ]

**Official Symbol** IL4

**Synonyms** IL4; interleukin 4; interleukin-4; B cell growth factor 1; B\_cell stimulatory factor 1; BCGF 1; BCGF1; BSF1; IL 4; lymphocyte stimulatory factor 1; MGC79402; binetrakin; pitrakinra; IL-4; BSF-1; BCGF-1;

**Gene ID** 3565

**mRNA Refseq** NM\_000589

**Protein Refseq** NP\_000580

**MIM** 147780

**UniProt ID** P05112

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