

## Active Recombinant Human IL4 Protein (His25-Ser153), C-His tagged, Animal-free, Carrier-free

Cat. No. IL4-168H Lot. No. (See product label)

### SPECIFICATION

#### Product Overview

Recombinant Human IL4 Protein (His25-Ser153) with C-His tag was expressed in E. coli and Animal-free as well as Carrier-free.

#### Species

Human

#### Source

E.coli

#### ProteinLength

His25-Ser153

#### Description

Interleukin-4 (IL-4) is a key cytokine produced by activated T cells, mast cells, basophils, neutrophils and eosinophils. IL-4 is critical for the development of Th2-mediated responses, which is related to allergy and asthma. It can also regulate B cell responses, including survival, cell proliferation and gene expression. IL-4 also plays fundamental role for B-cell stimulation, including induction of the IgE isotype switch.

#### Form

Lyophilized

#### Bio-activity

Measure by its ability to induce TF-1 cells proliferation. The ED50 for this effect is < 0.2 ng/mL. The specific activity of recombinant human IL-4 is approximately  $>2.8 \times 10^7$  IU/mg.

#### Molecular Mass

The protein has a calculated MW of 15.9 kDa.  
The protein migrates as 12 kDa under reducing condition (SDS-PAGE analysis).

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Endotoxin</b>	< 0.1 EU/μg of the protein by the LAL method.
<b>Purity</b>	>98% as determined by SDS-PAGE analysis.
<b>Storage</b>	This product is stable after storage at: -20 centigrade for 12 months in lyophilized state from date of receipt. -20 or -80 centigrade for 2 weeks under sterile conditions after reconstitution. Avoid repeated freeze/thaw cycles.
<b>Storage Buffer</b>	Lyophilized from a 0.2 μm filtered solution of PBS, pH 8.0.
<b>Reconstitution</b>	It is recommended to reconstitute the lyophilized protein in sterile H <sub>2</sub> O to a concentration not less than 200 μg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.
<b>Shipping</b>	The product is shipped with polar packs. Upon receipt, store it immediately at -20 centigrade or lower for long term storage.

## GENE INFORMATION

<b>Gene Name</b>	IL4 interleukin 4 [ Homo sapiens (human) ]
<b>Official Symbol</b>	IL4
<b>Synonyms</b>	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;
<b>Gene ID</b>	3565
<b>mRNA Refseq</b>	NM_000589

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

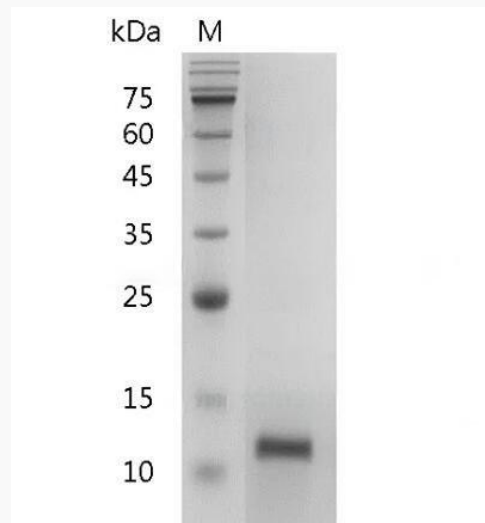
 45-1 Ramsey Road, Shirley, NY 11967, USA

**Protein Refseq** NP\_000580

**MIM** 147780

**UniProt ID** P05112

**SDS-PAGE analysis  
of recombinant  
human IL-4.**



 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA