

## Active Recombinant Rat Interleukin 4, HlgG1 Fc-tagged

Cat. No. IL4-458R Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	The extracellular domain of rat IL-4(NP_000580)(Met1-Ser153) is fused to the N-terminus of the Fc region of human IgG1 was expressed in CHO cell.
<b>Species</b>	Rat
<b>Source</b>	CHO
<b>ProteinLength</b>	1-153 a.a.
<b>Description</b>	<p>The protein encoded by this gene is a pleiotropic cytokine produced by activated T cells. This cytokine is aligand for interleukin 4 receptor. The interleukin 4 receptor also binds to IL13, which may contribute to manyoverlapping functions of this cytokine and IL13. STAT6, a signal transducer and activator of transcription, hasbeen shown to play a central role in mediating the immune regulatory signal of this cytokine. This gene, IL3,IL5, IL13, and CSF2 form a cytokine gene cluster on chromosome 5q, with this gene particularly close to IL13.This gene, IL13 and IL5 are found to be regulated coordinately by several long-range regulatory elements in anover 120 kilobase range on the chromosome. Two alternatively spliced transcript variants of this gene encodingdistinct isoforms have been reported.</p>
<b>Form</b>	Lyophilized from 0.2µm-filtered solution in PBS.
<b>Bio-activity</b>	Measured in a cell proliferation assay using TF-1 human erythroleukemic cells.
<b>Molecular Mass</b>	43 KDa (monomer)

 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>AA Sequence</b>	Met1-Ser153
<b>Endotoxin</b>	<0.06 eu/μg="" as="" determined="" by="" lal="">
<b>Purity</b>	>98%, by SDS-PAGE under reducing conditions.
<b>Stability</b>	Stable for at least 1 year after receipt when stored at -20°C. Working aliquots are stable for up to 3 months when stored at -20°C.
<b>Reconstitution</b>	Reconstitute at 100μg/ml in sterile PBS.
<b>Warning</b>	Avoid freeze/thaw cycles.

## GENE INFORMATION

<b>Gene Name</b>	IL4 interleukin 4 [ <i>Rattus norvegicus</i> ]
<b>Official Symbol</b>	IL4
<b>Synonyms</b>	IL4; interleukin 4; interleukin-4; IL-4; BSF-1; B-cell growth factor 1; B-cell stimulatory factor 1; lymphocyte stimulatory factor 1; B-cell IGG differentiation factor; IL4e12;
<b>Gene ID</b>	<a href="#">287287</a>
<b>mRNA Refseq</b>	<a href="#">NM_201270</a>
<b>Protein Refseq</b>	<a href="#">NP_958427</a>
<b>Pathway</b>	Allograft rejection, organism-specific biosystem; Allograft rejection, conserved biosystem; Asthma, organism-specific biosystem; Asthma, conserved biosystem; Autoimmune thyroid disease, organism-specific biosystem; Autoimmune thyroid

 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



disease, conserved biosystem; Cytokine-cytokine receptor interaction, organism-specific biosystem;

**Function**

cytokine activity; cytokine activity; growth factor activity; interleukin-4 receptor binding;

 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