

Active Recombinant Rat Interleukin 4, HlgG1 Fc-tagged

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

SPECIFICATION

Product Overview	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.
Species	Rat
Source	CHO
ProteinLength	1-153 a.a.
Description	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.
Form	Lyophilized from 0.2µm-filtered solution in PBS.
Bio-activity	Measured in a cell proliferation assay using TF-1 human erythroleukemic cells.
Molecular Mass	43 KDa (monomer)

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

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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AA Sequence	Met1-Ser153
Endotoxin	<0.06 eu/μg="" as="" determined="" by="" lal="">
Purity	>98%, by SDS-PAGE under reducing conditions.
Stability	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.
Reconstitution	Reconstitute at 100μg/ml in sterile PBS.
Warning	Avoid freeze/thaw cycles.

GENE INFORMATION

Gene Name	IL4 interleukin 4 [<i>Rattus norvegicus</i>]
Official Symbol	IL4
Synonyms	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;
Gene ID	287287
mRNA Refseq	NM_201270
Protein Refseq	NP_958427
Pathway	Allograft rejection, organism-specific biosystem; Allograft rejection, conserved biosystem; Asthma, organism-specific biosystem; Asthma, conserved biosystem; Autoimmune thyroid disease, organism-specific biosystem; Autoimmune thyroid

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

Function

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

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