

Active Recombinant Mouse IL4 Protein (His21-Ser140), C-His tagged, Animal-free, Carrier-free

Cat. No. IL4-59M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse IL4 Protein (His21-Ser140) with C-His tag was expressed in E. coli and Animal-free as well as Carrier-free.
Species	Mouse
Source	E.coli
ProteinLength	His21-Ser140
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 HT-2 cells proliferation. The ED50 for this effect is < 1 ng/mL. The specific activity of recombinant mouse IL-4 is approximately $>1 \times 10^6$ IU/mg.
Molecular Mass	The protein has a calculated MW of 14.5 kDa. The protein migrates as 14 kDa under reducing condition (SDS-PAGE analysis).

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Endotoxin	< 0.1 EU/μg of the protein by the LAL method.
Purity	>98% as determined by SDS-PAGE analysis.
Storage	This product is stable after storage at: -20 centigrade for 12 months in lyophilized state from date of receipt. -20 or -80 centigrade for 1 month under sterile conditions after reconstitution. Avoid repeated freeze/thaw cycles.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile H ₂ 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.
Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at -20 centigrade or lower for long term storage.

GENE INFORMATION

Gene Name	IL4 interleukin 4 [<i>Mus musculus</i> (house mouse)]
Official Symbol	IL4
Synonyms	IL4; interleukin 4; interleukin-4; IGG1 induction factor; B-cell growth factor 1; B-cell stimulatory factor 1; lymphocyte stimulatory factor 1; B-cell IgG differentiation factor; IL-4; BSF-1;
Gene ID	16189
mRNA Refseq	NM_021283

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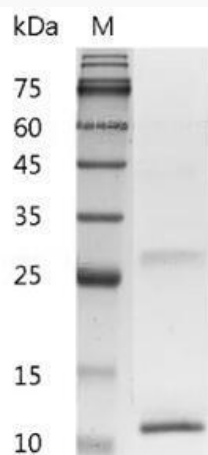
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Protein Refseq NP_067258

UniProt ID P07750

**SDS-PAGE analysis
of recombinant
mouse IL-4**



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