

Active Recombinant Rat IL4 Protein, His-tagged

Cat. No. IL4-245I **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat IL4 Protein with a His tag was expressed in CHO.
Species	Rat
Source	CHO
Description	Interleukin-4 (IL-4), also known as BSF-1 and Lymphocyte stimulatory factor 1, is a secreted cytokine belonging to the IL-4/IL-13 family. It is produced by mast cells, T cells and bone marrow stromal cells. IL-4 signals through two receptor complexes: the IL4Rα/common γ chain and the IL4Rα-IL-13 Rα1 receptor complex. IL-4 regulates T cell and B cell proliferation, survival and gene expression. IL-4 also induces IgG and IgE class switching, and the upregulation of MHC-II production.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	ED50 < 0.2 µg/mL, measured in a proliferation assay using C6 cells.
Molecular Mass	18-22 kDa, observed by reducing SDS-PAGE.
AA Sequence	HGCNDSPLREIINTLNQVTEKGTPCTEMFVPDVLTA TRNTTENELICRASRVLRKFYF PRDVPPCLKNKSGVLGELRKLCRGVSGLSLR SCTVNESTLTTLKDFLESLSILRG KYLQSCTSM SHHHHHH
Endotoxin	< 0.2 EU/µg, determined by LAL method.

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Purity	> 95% as analyzed by SDS-PAGE.
Storage	Lyophilized recombinant rat Interleukin-4 (IL-4), Hisremains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, rat Interleukin-4 (IL-4), Hisshould be stable up to 1 week at 4 centigrade or up to 2 months at -20 centigrade.
Storage Buffer	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH2O or PBS at 100 µg/mL.

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
UniProt ID	P20096

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