

## Active Recombinant Rat IL4 Protein, His-tagged

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant Rat IL4 Protein with a His tag was expressed in CHO.
<b>Species</b>	Rat
<b>Source</b>	CHO
<b>Description</b>	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 IL4R $\alpha$ /common $\gamma$ chain and the IL4R $\alpha$ -IL-13 R $\alpha$ 1 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.
<b>Form</b>	Sterile Filtered White lyophilized (freeze-dried) powder.
<b>Bio-activity</b>	ED50 < 0.2 $\mu$ g/mL, measured in a proliferation assay using C6 cells.
<b>Molecular Mass</b>	18-22 kDa, observed by reducing SDS-PAGE.
<b>AA Sequence</b>	HGCNDSPLREIINTLNQVTEKGTPTCEMFVDPDLTATRNTTENELICRASRVLRKFYF PRDVPPCLKNKSGVLGELRKLRCRGVSGLNLSRCTVNESTLTTLKDFLESLSKILRG KYLQSCTSMHHHHHH
<b>Endotoxin</b>	< 0.2 EU/ $\mu$ g, determined by LAL method.

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<b>Purity</b>	> 95% as analyzed by SDS-PAGE.
<b>Storage</b>	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.
<b>Storage Buffer</b>	Lyophilized after extensive dialysis against PBS.
<b>Reconstitution</b>	Reconstituted in ddH <sub>2</sub> O or PBS at 100 µg/mL.

## GENE INFORMATION

<b>Gene Name</b>	IL4 interleukin 4 [ <a href="#">Rattus norvegicus</a> ]
<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>UniProt ID</b>	<a href="#">P20096</a>

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