

## Active Recombinant Mouse IL5

Cat. No. IL5-121M Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Mouse IL5 was expressed in CHO Cells.
<b>Species</b>	Mouse
<b>Source</b>	CHO
<b>Description</b>	Interleukin-5 (IL-5), produced by mast cells, T cells and eosinophils, is responsible for the activities attributed to eosinophil differentiating factor, B cell growth factor II and T cell-replacing factor (TRF). It can increase production and mobilization of eosinophils and CD34+ progenitors from the bone marrow. IL-5 plays an important role in inducing cell-mediated immunity against parasitic infections and certain tumors. IL-5 also promotes differentiation of basophils and primes them for histamine and leukotriene release. Recombinant Murine IL-5 is homodimeric protein with molecular weight ranging from 25 to 40 kDa due to glycosylation.
<b>Form</b>	Lyophilized after extensive dialysis against PBS.
<b>Bio-activity</b>	ED <sub>50</sub> < 0.5 ng/ml, measured in a cell proliferation assay using tf-1 cells, corresponding to a specific activity of > 2 × 10 <sup>6</sup> units/mg.
<b>Molecular Mass</b>	25-40 kDa, observed by non-reducing SDS-PAGE.
<b>AA Sequence</b>	Met21-Gly133.

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<b>Endotoxin</b>	< 0.2 EU/μg, determined by LAL>
<b>Purity</b>	>95% as analyzed by SDS-PAGE and HPLC.
<b>Storage</b>	Lyophilized recombinant protein remains stable up to 6 months at -80°C from date of receipt. Upon reconstitution, rmlL-5 should be stable up to 1 week at 4°C or up to 2 months at -20°C.
<b>Reconstitution</b>	Reconstituted in ddH <sub>2</sub> O or PBS at 100 μg/ml.

## GENE INFORMATION

<b>Gene Name</b>	IL5 interleukin 5 [ <i>Mus musculus</i> ]
<b>Official Symbol</b>	IL5
<b>Synonyms</b>	IL5; interleukin 5; interleukin-5; TRF; BCGF-II; B-cell growth factor II; T-cell replacing factor; cytotoxic T-lymphocyte inducer; eosinophil differentiation factor; IL-5;
<b>Gene ID</b>	16191
<b>mRNA Refseq</b>	NM_010558
<b>Protein Refseq</b>	NP_034688
<b>UniProt ID</b>	P04401
<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 disease, conserved biosystem; Cytokine Signaling in Immune system, organism-

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specific biosystem;

**Function**

cytokine activity; cytokine activity; growth factor activity; interleukin-5 receptor binding;

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