



# Recombinant Mouse IL-5

20150227BB



**FOR RESEARCH ONLY! NOT FOR HUMAN USE!**

<b>Cat.-no.:</b>	<b>M10-046</b>
Size:	25 µg
Lot. No.:	According to product label

IL-5 is a hematopoietic growth factor that stimulates the proliferation and activation of eosinophils. Produced by mast cells, T cells, and eosinophils, IL-5 plays an important role in inducing cell-mediated immunity against parasitic infections and certain tumors. Elevated levels of IL-5 lead to Eosinophilia, which may result in the induction of asthma and other allergic diseases. Human and murine IL-5 is cross-species reactive. Recombinant murine IL-5 is a 26.2 kDa disulfide-linked homodimeric protein containing two 113 amino acid chains.

## Scientific Background

<b>Gene-ID (NCBI):</b>	<i>16191</i>
<b>Synonyms:</b>	IL5; IL-5; B-cell growth factor II Short name=BCGF-II Cytotoxic T-lymphocyte inducer Eosinophil differentiation factor T-cell replacing factor

### Sequence

```
MEIPMSTVVK ETLTQLSAHR ALLTSNETMR LPVPTHKNHQ  
LCIGEIFQGL DILKNQTVRG GTVEMLFQNL SLIKKYIDRQ  
KEKCGEERRR TRQFLDYLQE FLGVMSTEWA MEG
```

### Database References

<b>Protein RefSeq:</b>	NP_034688.1
<b>Uniprot ID:</b>	P04401
<b>mRNA RefSeq:</b>	NM_010558.1

## Product Specifications

<b>Expressed in</b>	E. coli
<b>Purity</b>	> 98% by SDS-PAGE & HPLC analyses



## Recombinant Mouse IL-5

<b>Structural Information</b>	disulphide-linked homodimer
<b>Endotoxin level</b>	< 0.1 ng /µg of protein (<1EU/µg).
<b>Formulation</b>	lyophilized
<b>Length (aa):</b>	113
<b>MW:</b>	26.2 kDa



*AVOID REPEATED FREEZE AND THAW CYCLES!*

**Biological Activity:** The ED50 was determined by the dose-dependent stimulation of the proliferation of human TF-1 cells and is < 2.0 ng/ml, corresponding to a specific activity of > 5 x 10<sup>5</sup> units/mg.