



Recombinant Mouse IL-5

20150227BB



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	M10-046S
Size:	5 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

Gene-ID (NCBI):	<i>16191</i>
Synonyms:	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

Protein RefSeq:	NP_034688.1
Uniprot ID:	P04401
mRNA RefSeq:	NM_010558.1

Product Specifications

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



Recombinant Mouse IL-5

Structural Information	disulphide-linked homodimer
Endotoxin level	< 0.1 ng /µg of protein (<1EU/µg).
Formulation	lyophilized
Length (aa):	113
MW:	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 10⁵ units/mg.