



# Recombinant Rat IL-5

20150227BB



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

<b>Cat.-no.:</b>	<b>R20-048</b>
Size:	10 µg
Lot. No.:	According to product label

## Scientific Background

<b>Gene-ID (NCBI):</b>	24497
<b>Synonyms:</b>	IL5; IL-5

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. Recombinant rat IL-5 is a 26.0 kDa disulfide-linked homodimeric protein containing two 113 amino acid chains.

### Sequence

```
MEIPMSTVVK ETLIQLSTHR ALLTSNETMR LPVPTHKNHQ  
LCIGEIFQGL DILKNQTVRG GTVEILFQNL SLIKKYIDGQ  
KEKCGEERRK TRHFLDYLQE FLGVMSTEWA MEV
```

### Database References

<b>Protein RefSeq:</b>	NP_068606.1
<b>Uniprot ID:</b>	Q9R2C9
<b>mRNA RefSeq:</b>	NM_021834.1

## Product Specifications

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

**Biological Activity:** The ED50 was determined by the dose-dependent stimulation of the proliferation of human TF-1 cells is < 0.5 ng/ml, corresponding to a specific activity of > 2 x 10<sup>6</sup> units/mg.



**AVOID REPEATED FREEZE AND THAW CYCLES!**