



## Recombinant Rat IL-15

20150227BB



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

<b>Cat.-no.:</b>	<b>R20-032</b>
Size:	10 µg
Lot. No.:	According to product label

### Scientific Background

<b>Gene-ID (NCBI):</b>	25670
<b>Synonyms:</b>	Il15; 19q11

IL-15 is an immunomodulating cytokine that stimulates the proliferation of T lymphocytes and shares many biological properties with IL-2. IL-15 exerts its biological activities primarily on T cells. It is also essential in the development, survival and activation of NK cells. Increased expression of IL-15 has been implicated with rheumatoid arthritis, inflammatory bowel disease and diseases affiliated with retroviruses HIV and HTLV-I. Human IL-15 is biologically active on mouse cells as measured by the dose-dependent stimulation of the proliferation of mouse CTLL cells. Recombinant rat IL-15 is a 13.5 kDa protein consisting of 115 amino acid residues.

### Sequence

```
MNWIDVRYDL EKIESLIQFI HIDTTLYTDS DFHPSCKVTA  
MNCFLLELQV ILHEYSNMTL NETVRNVLYL ANSTLSSNKN  
VIESGCKECE ELEERNFTEF LQSFIVQVM FINTS
```

### Database References

<b>Protein RefSeq:</b>	NP_037261.1
<b>Uniprot ID:</b>	P97604
<b>mRNA RefSeq:</b>	NM_013129

### Product Specifications

<b>Expressed in</b>	E. coli
<b>Purity</b>	> 96% by SDS-PAGE & HPLC analyses
<b>Endotoxin level</b>	< 0.1 ng /µg of protein (<1EU/µg).
<b>Formulation</b>	lyophilized
<b>Length (aa):</b>	115
<b>MW:</b>	13.5 kDa

**Biological Activity:** The ED50 as determined by the dose-dependent stimulation of the proliferation of murine CTLL-2 cells is < 10 ng/ml, corresponding to a specific activity of > 1 x 10<sup>5</sup> units/mg.



**AVOID REPEATED FREEZE AND THAW CYCLES!**