



# Recombinant Rat IL-2

20150227BB



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

<b>Cat.-no.:</b>	<b>R20-026S</b>
Size:	5 µg
Lot. No.:	According to product label

## Scientific Background

<b>Gene-ID (NCBI):</b>	809853
<b>Synonyms:</b>	rbcl

IL-2 is a powerful immunoregulatory lymphokine produced by T-cells in response to antigenic or mitogenic stimulation. IL-2/IL-2R signaling is required for T-cell proliferation and other fundamental functions which are essential for the immune response. IL-2 stimulates growth and differentiation of B-cells, NK cells, lymphokine activated killer cells, monocytes, macrophages and oligodendrocytes. Recombinant rat IL-2 $\alpha$  is a 15.3 kDa protein containing 134 amino acid residues.

### Sequence

```
MAPTSSPAKE TQQHLEQLL DLQVLLRGID NYKNLKLPM  
LTFKFYLPKQ ATELKHLQCL ENELGALQRV LDLTQSKSFH  
LEDAGNFISN IRVTVVKLKG SENKFECQFD DEPATVVEFL  
RRWIAIAQSI ISTM
```

### Database References

<b>Protein RefSeq:</b>	NP_446288.1
<b>Uniprot ID:</b>	P17108
<b>mRNA RefSeq:</b>	NM_053836.1

## Product Specifications

<b>Expressed in</b>	E. coli
<b>Purity</b>	> 98% 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>	134
<b>MW:</b>	15.3 kDa

**Biological Activity:** The ED50 as determined by the dose-dependent stimulation of the proliferation of murine CTLL-2 cells is < 0.4 ng/ml, corresponding to a specific activity of > 2.5 x 10<sup>6</sup> units/mg.



**AVOID REPEATED FREEZE AND THAW CYCLES!**