



# Recombinant Mouse IL-7

20150227BB



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

<b>Cat.-no.:</b>	<b>M10-018S</b>
Size:	2 µg
Lot. No.:	According to product label

## Scientific Background

<b>Gene-ID (NCBI):</b>	16196
<b>Synonyms:</b>	IL7; IL-7; hlb368; A630026I06Rik

IL-7 is a hematopoietic growth factor which affects primarily early B and T cells. Produced by thymic stromal cells, spleen cells and keratinocytes, IL-7 can also co-stimulate the proliferation of mature T cells in combination with other factors such as ConA and IL-2. Human and murine IL-7 is cross-species reactive. Recombinant murine IL-7 is a 15.0 kDa protein containing 130 amino acid residues.

### Sequence

```
MECHIKDKEG KAYESVLMIS IDELDKMTGT DSNCPNNEPN  
FFRKHVCDDT KEAAFLNRAA RKLKQFLKMN ISEEFNVHLL  
TVSQGTQTLV NCTSKEEKNV KEQKNDACF LKRLLEIKT  
CWNKILKGS
```

### Database References

<b>Protein RefSeq:</b>	NP_032397.1
<b>Uniprot ID:</b>	P10168
<b>mRNA RefSeq:</b>	NM_008371

## 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>	130
<b>MW:</b>	15 kDa

**Biological Activity:** The ED50 as determined by the dose-dependent stimulation of the proliferation of murine 2E8 cells is < 0.2 ng/ml, corresponding to a specific activity of > 5 x 10<sup>6</sup> units/mg.



**AVOID REPEATED FREEZE AND THAW CYCLES!**