



## Recombinant Mouse IL-31

20150227BB



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

<b>Cat.-no.:</b>	<b>M10-073</b>
Size:	10 µg
Lot. No.:	According to product label

### Scientific Background

<b>Gene-ID (NCBI):</b>	76399
<b>Synonyms:</b>	Il31; 1700013B14Rik

IL-31 is a T-cell derived cytokine that shares several structural and functional characteristics with IL-6, Oncostatin M, LIF, and Cardiotrophin-1. It signals through a receptor complex comprised of GPL (GP130-like, IL-31RA) and OSMR (Oncostatin M receptor). GPL/OSMR signaling is a strong activator of STAT3 and STAT5, and can also activate STAT1, Jak1, and Jak2 signaling pathways. IL-31 regulated immune responses have been implicated in skin physiology and inflammatory skin diseases. Recombinant murine IL-31 is a 15.8 kDa protein containing 140 amino acid residues.

### Sequence

```
MTCSLSFSGAP ISKEDLRRTI DLLKQESQDL YNNYSIKQAS  
GMSADESIQL PCFSLDREAL TNISVIAHL EKVKVLSNT  
VDTSWVIRWL TNISCFNPLN LNISVPGNTD ESYDCKVFVL  
TVLKQFSNCM AELQAKDNTT C
```

### Database References

<b>Protein RefSeq:</b>	NP_083870.1
<b>Uniprot ID:</b>	Q6EAL8
<b>mRNA RefSeq:</b>	NM_029594

### 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>	140
<b>MW:</b>	15.8 kDa

**Biological Activity:** Testing in progress.



**AVOID REPEATED FREEZE AND THAW CYCLES!**