



# Recombinant Mouse IL-33

20200108BB



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

<b>Cat.-no.:</b>	<b>M10-241</b>
Size:	10 µg
Lot. No.:	According to product label

## Scientific Background

<b>Gene-ID (NCBI):</b>	77125
<b>Synonyms:</b>	NF-HEV

IL-33 is a proinflammatory protein that shares structural and functional characteristics with the IL-1 cytokine family. It binds and signals through the IL-1RL1/ST2 receptor activating NF-kappaB and MAP kinases. IL-33 induces production of TH2 cell related cytokines, including IL-4, IL-5 and IL-13, and exerts multiple inflammation related bioactivities. Recombinant murine IL-33 is a 17.5 kDa protein containing 158 amino acid residues.

### Sequence

```
SIQGTSLLTQ SPASLSTYND QSVSFVLENG CYVINVDDSG  
KDQEQQDQVLL RYYESPCPAS QSGDGVGK LMVNMSPIKD  
TDIWLHANDK DYSVELQRGD VSPPEQAFFV LHKKSDFVS  
FECKNLPPTY IGVKDNQLAL VEEKDESCNN IMFKLSKI
```

### Database References

<b>Protein RefSeq:</b>	NP_598536.2
<b>Uniprot ID:</b>	Q8BVZ5
<b>mRNA RefSeq:</b>	NM_133775.2

## 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>	158
<b>MW:</b>	17.5 kDa

**Stability:** The lyophilized protein is stable at room temperature for 1 month and at 4°C for 6 months. Reconstituted working aliquots are stable for 1 week at 2°C to 8°C and for 9 months at -20°C to -80°C.

**Reconstitution:** Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. *Do not vortex.* This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.



**AVOID REPEATED FREEZE AND THAW CYCLES!**

**Biological Activity:** The ED<sub>50</sub> was determined by the dose-dependent stimulation of the proliferation of murine D10S cells is ≤ 0.5 ng/ml, corresponding to a specific activity of ≥ 2 x 10<sup>6</sup> units/mg.