


## Mouse IL-33 Protein, His tag (Animal-Free)

Cat #: PRP1156

Size: 5 µg/20 µg/100 µg/1 mg

### Product Information

	<b>Product Name:</b> Mouse IL-33 Protein, His tag (Animal-Free)		
<b>REF</b>	<b>Catalog Number:</b> PRP1156	<b>LOT</b>	<b>Lot Number:</b> Refer to product label
	<b>Purity:</b> > 98 % as determined by SDS-PAGE		
	<b>Storage:</b> Store at -20°C		<b>Preparation method:</b> E.coli
	<b>Shipping:</b> The product is shipped at ambient temperature.		

**Background:** Interleukin 33 (IL-33) is a 17.65 kDa cytokine with 159 amino acid residues. IL-33 is a member of the IL-1 family and secreted from various cell types, such as mast cells, macrophages, endothelial cells, and epithelial cells. IL-33 activates NF-κB and MAPK signaling pathways that stimulate the secretion of type 2 cytokines like IL-5 and IL-13 when IL-33 binds to the ST2 receptor primarily expressed in mast cells and Th2 cells. In addition to Th type 2 responses, IL-33 participates in maintaining barrier tissue defense.

**Sequence:** Amino acid sequence derived from Mouse IL-33 (Met108 -Ile266) (Q8BVZ5) was expressed with 6×His tag at the C-terminus.

**Protein length:** The recombinant Mouse IL-33 Protein consists of 159 amino acids and predicts a molecular mass of 18.51 kDa.

**Biological Activity:** Measured by its ability to induce proliferation in D10.G4.1 cells. The ED<sub>50</sub> for this effect is <40 pg/mL.

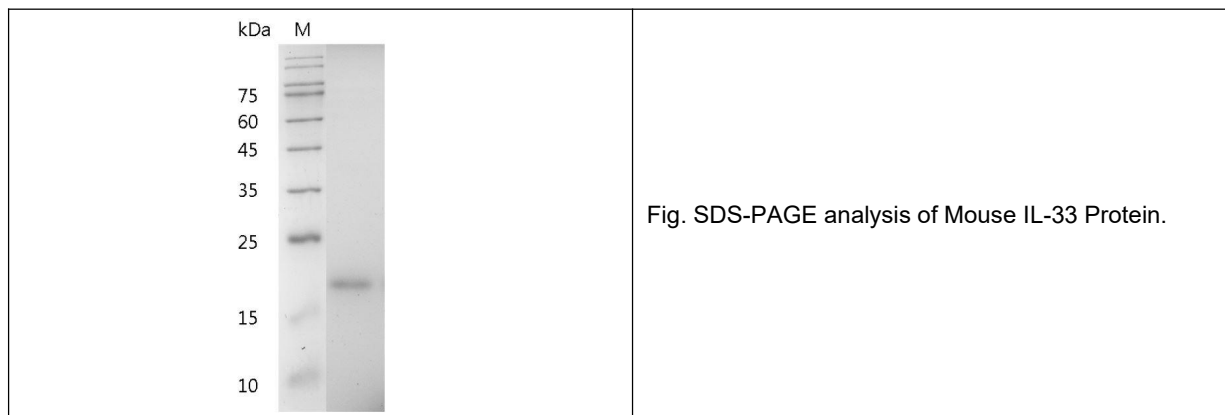
**Endotoxin:** <0.1 EU per µg of the protein as determined by the LAL method.

**Formulation:** Lyophilized from sterile PBS, pH 7.4.

**Storage Instructions:** Lyophilized protein product should be stored desiccated below -18°C. Upon reconstitution, the protein should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (5% HSA, 10%FBS or 0.1%BSA). Please prevent freeze-thaw cycles.

**Usage notes:** Always centrifuge tubes before opening. It is recommended to reconstitute the lyophilized recombinant protein to a concentration of 0.1-1 mg/mL using the buffer we provided, and keep at room temperature for at least 20 min to fully

dissolve. Please avoid vortex vigorously.



**Note:** The product listed herein is for research use only and is not intended for use in human or clinical diagnosis. Suggested applications of our products are not recommendations to use our products in violation of any patent or as a license. We cannot be responsible for patent infringements or other violations that may occur with the use of this product.