


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

Cat #: PRP1091

Size: 5 µg/20 µg/100 µg/1 mg

### Product Information

	<b>Product Name:</b> Human IL-33 Protein, His tag (Animal-Free)		
<b>REF</b>	<b>Catalog Number:</b> PRP1091	<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 an 18 kDa cytokine with 169 amino acid residues. Interleukin-33 is a member of the IL-1 cytokine family and is primarily expressed in endothelial cells, epithelial cells, fibroblasts, and mesenchymal cells. When IL-33 binds to its receptor, ST2L, it activates mast cells and innate lymphoid cells and subsequently generates IL-5 and IL-13, which play essential roles in allergic inflammation. IL-33 also acts as an alarm by alerting the immune system of cellular damage and plays a critical role in type-2 innate immunity.

**Sequence:** Amino acid sequence derived from Human IL-33 (Ser112-Thr270) (Q9HBE4) was expressed with 6×His tag at the C-terminus.

**Protein length:** The recombinant Human IL-33 Protein consists of 159 amino acids and predicts a molecular mass of 18.9 kDa.

**Biological Activity:** Measured by its ability to binding with recombinant ST2L (IL-33 receptor). The ED<sub>50</sub> for this effect is <54 ng/mL. Measured by its ability to induce proliferation in D10.G4.1 cells. The ED<sub>50</sub> for this effect is < 0.1 ng/mL.

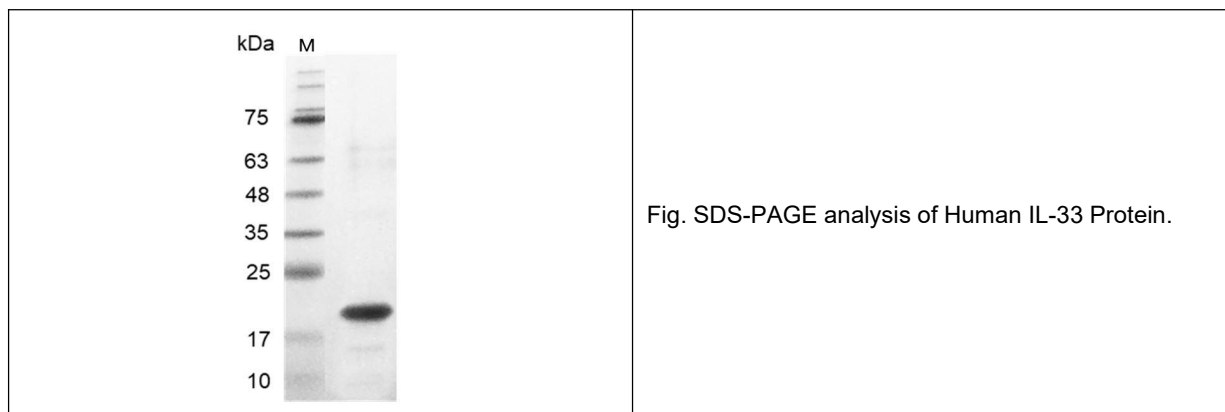
**Endotoxin:** <0.1 EU per µg of the protein as determined by the LAL method.

**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 2-33 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.