

# Human IL-33 Protein

Cat. No. IL3-HM133



## Description

<b>Source</b>	Recombinant Human IL-33 Protein is expressed from HEK293 with His tag at the N-terminus. It contains His109-Thr270.
<b>Accession</b>	NP_254274.1
<b>Molecular Weight</b>	The protein has a predicted MW of 19.43 kDa. Due to glycosylation, the protein migrates to 26-30 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1 EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 90% as determined by HPLC

## Formulation and Storage

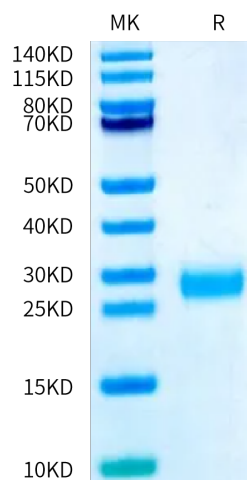
<b>Formulation</b>	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

Interleukin-33 (IL-33) is a cytokine belonging to the IL-1 family, playing a role in inflammatory, infectious and autoimmune diseases and expressed in the cellular nucleus in several tissues. High levels of IL-33 are expressed in epithelial barrier tissues and endothelial barriers. ST2 is a receptor for IL-33, expressed selectively on a subset of Th2 cells, mediating some of their functions.

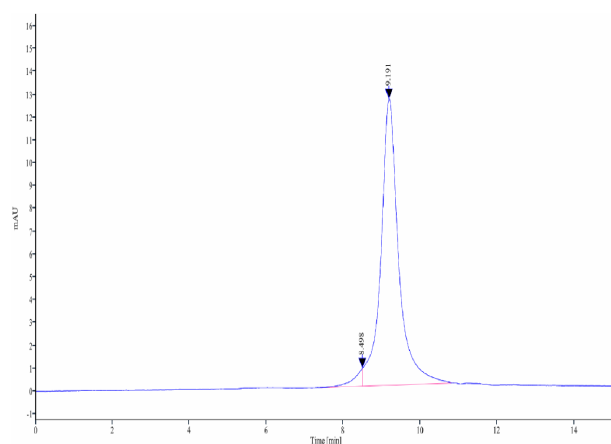
## Assay Data

### Bis-Tris PAGE



Human IL-33 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC



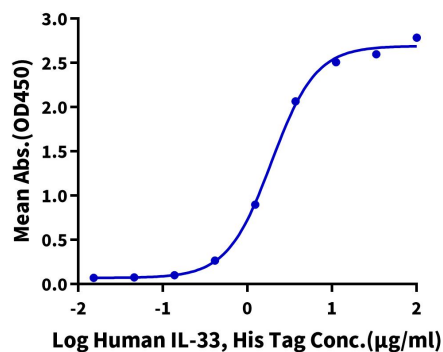
The purity of Human IL-33 is greater than 90% as determined by SEC-HPLC.

Assay Data

ELISA Data

**Human IL-33, His Tag ELISA**

0.1µg Human IL-1RL1, hFc Tag Per Well

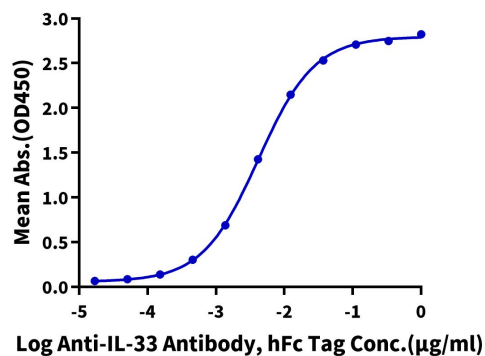


Immobilized Human IL-1RL1, hFc Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Human IL-33, His Tag with the EC50 of 1.93µg/ml determined by ELISA.

ELISA Data

**Human IL-33, His Tag ELISA**

0.05µg Human IL-33, His Tag Per Well



Immobilized Human IL-33, His Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Anti-IL-33 Antibody, hFc Tag with the EC50 of 4.2ng/ml determined by ELISA.