

# Cynomolgus IL-33 Protein

Cat. No. IL3-CM133



## Description

<b>Source</b>	Recombinant Cynomolgus IL-33 Protein is expressed from HEK293 with His tag at the N-Terminus. It contains His109-Ile270.
<b>Accession</b>	A0A2K5W3I1-1
<b>Molecular Weight</b>	The protein has a predicted MW of 19.2 kDa. Due to glycosylation, the protein migrates to 25-30 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

## Formulation and Storage

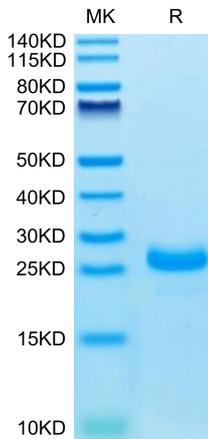
<b>Formulation</b>	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<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

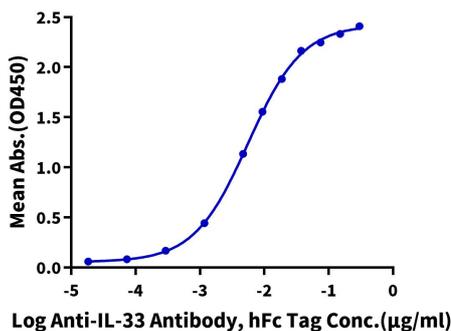


Cynomolgus IL-33 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### ELISA Data

#### Cynomolgus IL-33, His Tag ELISA

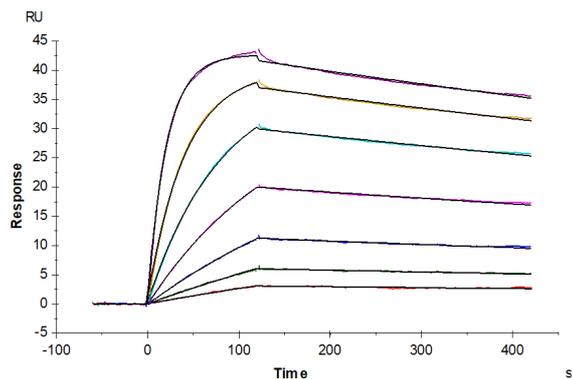
0.05µg Cynomolgus IL-33, His Tag Per Well



Immobilized Cynomolgus 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 5.6ng/ml determined by ELISA (QC Test).

Assay Data

SPR Data



Human IL-1RL1, hFc Tag captured on CM5 Chip via Protein A can bind Cynomolgus IL-33, His Tag with an affinity constant of 23.44 nM as determined in SPR assay (Biacore T200).