

# Cynomolgus IL-33 Protein, His Tag (MALS verified)

Catalog # IL3-C5245



BIOSYSTEMS  
**Acro**  
Surprise Inside!

## Synonym

IL33,DV27,C9ORF26,IL1F11,NFHEV,DKFZp586H0523,DVS27,NFEHEV,RP11-575C20.2

## Source

Cynomolgus IL-33, His Tag(IL3-C5245) is expressed from human 293 cells (HEK293). It contains AA His 109 - Ile 270 (Accession # [A0A2K5W3I1-1](#)). Predicted N-terminus: His

## Molecular Characterization

Poly-his IL-33(His 109 - Ile 270)  
A0A2K5W3I1-1

This protein carries a polyhistidine tag at the N-terminus.

The protein has a calculated MW of 20.2 kDa. The protein migrates as 25-28 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

## Endotoxin

Less than 1.0 EU per µg by the LAL method.

## Purity

>95% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

## Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

## Reconstitution

Please see Certificate of Analysis for specific instructions.

*For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.*

## Storage

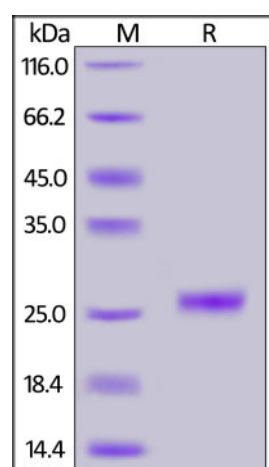
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

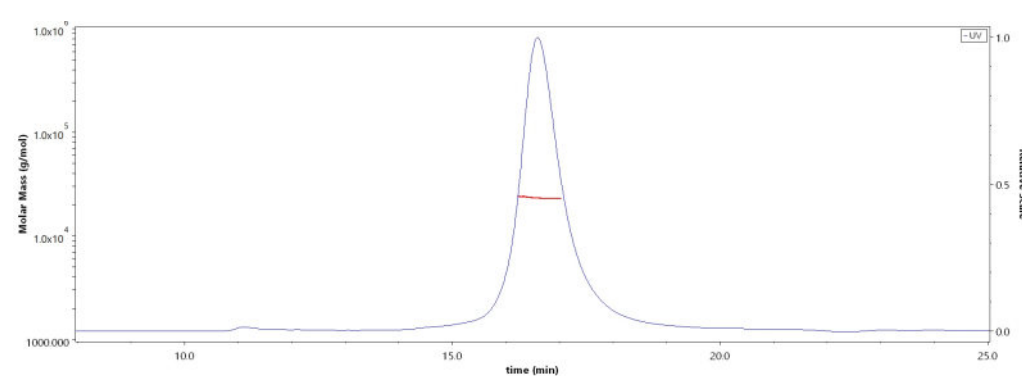
## SDS-PAGE



Cynomolgus IL-33, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

## Bioactivity-ELISA

## SEC-MALS



The purity of Cynomolgus IL-33, His Tag (Cat. No. IL3-C5245) is more than 90% and the molecular weight of this protein is around 19-29 kDa verified by SEC-MALS.

[Report](#)

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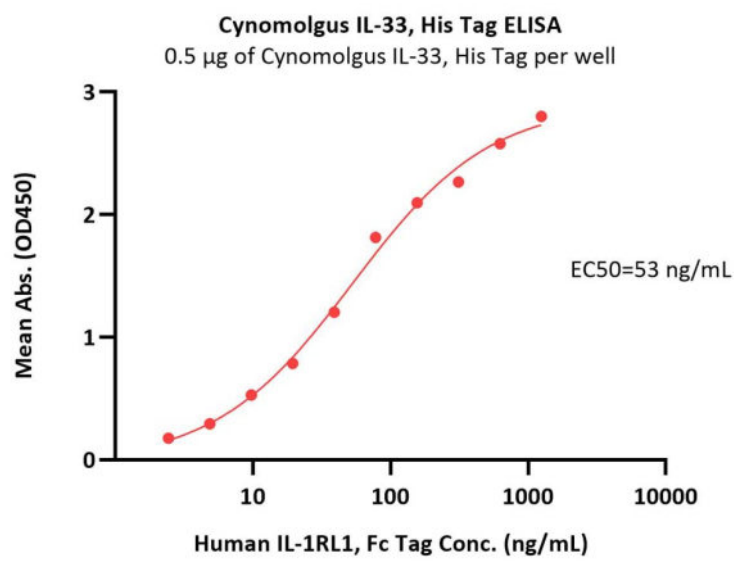
6/21/2024

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Immobilized Cynomolgus IL-33, His Tag (Cat. No. IL3-C5245) at 5 µg/mL (100 µL/well) can bind Human IL-1RL1, Fc Tag (Cat. No. IL1-H5250) with a linear range of 2-78 ng/mL (QC tested).

## Background

Interleukin 33 (IL33) is known as C9orf26, DKFZp586H0523, DVS27, NF-HEV, NFEHEV, RP11-575C20.2, and is a cytokine belonging to the IL-1 superfamily. IL-33 induces helper T cells, mast cells, eosinophils and basophils to produce type 2 cytokines. IL-33 mediates its biological effects by interacting with the receptors ST2 (aka IL1RL1) and IL-1 Receptor Accessory Protein (IL1RAP), activating intracellular molecules in the NF-κB and MAP kinase signaling pathways that drive production of type 2 cytokines (e.g. IL-5 and IL-13) from polarized Th2 cells. In vivo, IL-33 induces the expression of IL-4, IL-5, and IL-13 and leads to severe pathological changes in mucosal organs.

## Clinical and Translational Updates

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