

## Mouse IL-33 Protein, His Tag

Catalog # IL3-M5245



BIOSYSTEMS  
**Acro**

### Synonym

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

### Source

Mouse IL-33, His Tag (IL3-M5245) is expressed from human 293 cells (HEK293). It contains AA Ser 109 - Ile 266 (Accession # [Q8BVZ5-1](#)).

### Molecular Characterization

Poly-his

IL-33(Ser 109 - Ile 266)  
Q8BVZ5-1

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

The protein has a calculated MW of 19.6 kDa. The protein migrates as 20-30 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

### Purity

>90% as determined by SDS-PAGE.

### 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.**

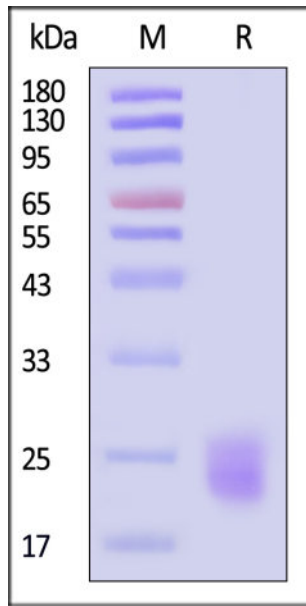
This product is stable after storage at:

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

### ACRO Quality Management System

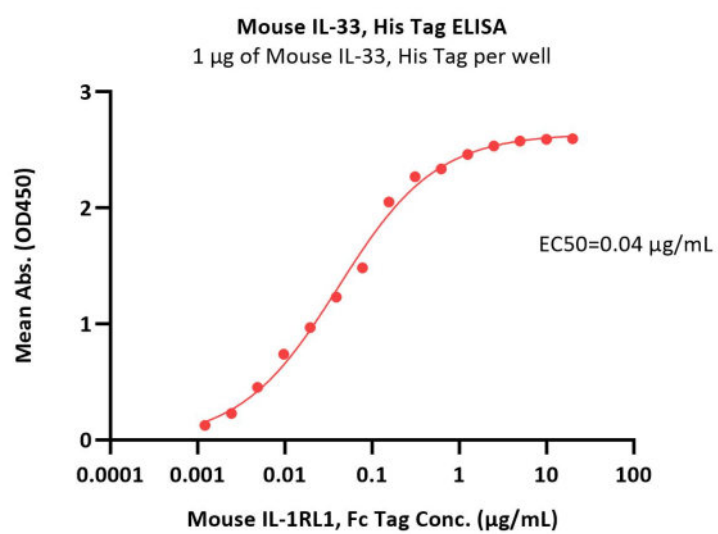
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

## SDS-PAGE



Mouse 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 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

## Bioactivity-ELISA



Immobilized Mouse IL-33, His Tag (Cat. No. IL3-M5245) at 10 µg/mL (100 µL/well) can bind Mouse IL-1RL1, Fc Tag (Cat. No. IL1-M5259) with a linear range of 0.001-0.156 µg/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.

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