

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
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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 when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per µg by the LAL method / rFC method.

Purity

>95% as determined by SDS-PAGE.

>95% 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.

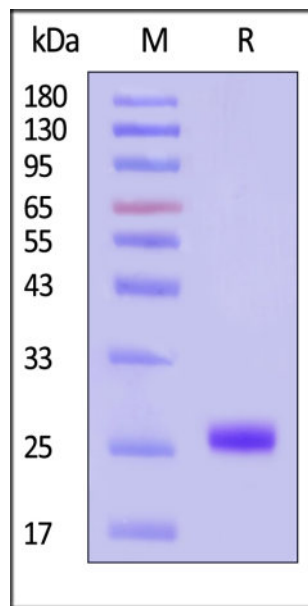
This product is stable after storage at:

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

ACRO Quality Management System

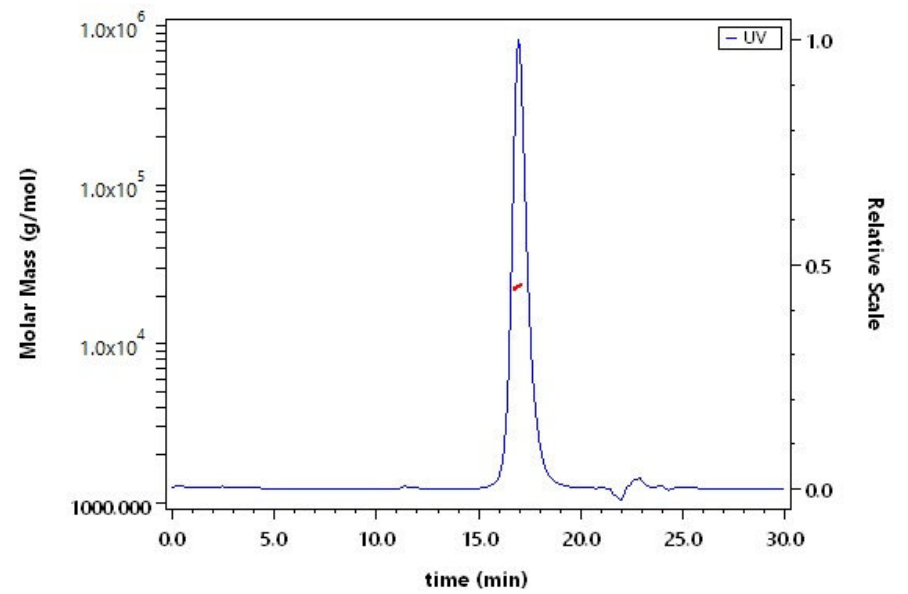
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



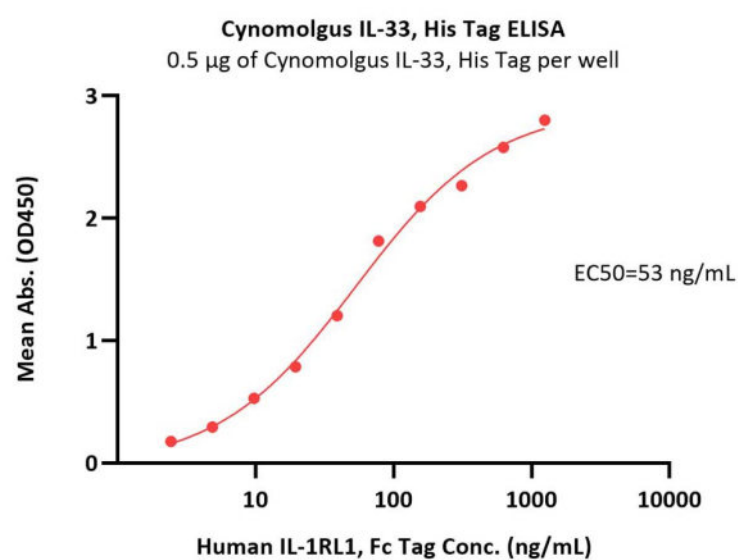
Cynomolgus IL-33, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

SEC-MALS



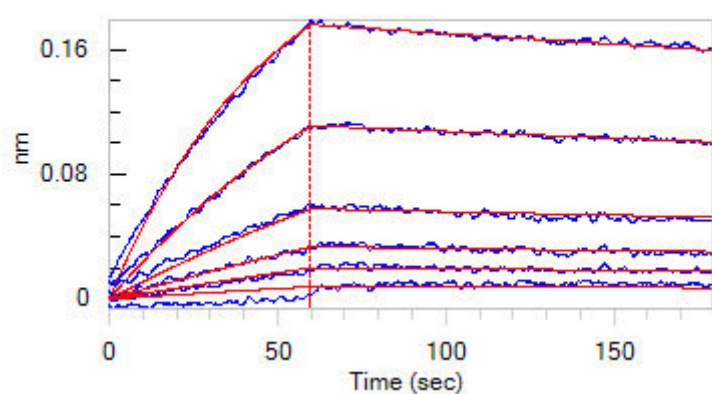
The purity of Cynomolgus IL-33, His Tag (Cat. No. IL3-C5245) is more than 95% and the molecular weight of this protein is around 19-29 kDa verified by SEC-MALS.

Bioactivity-ELISA



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).

Bioactivity-BLI



Loaded Itepekimab on Protein A Biosensor, can bind Cynomolgus IL-33, His Tag (Cat. No. IL3-C5245) with an affinity constant of 41.2 nM as determined in BLI assay (ForteBio Octet RED96e) (Routinely 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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