

Recombinant Human IL33 protein, His-tagged

Cat. No. IL33-310H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human IL33 protein (His109-Thr270), fused to His-tag at the N-terminus, was expressed in human 293 cells (HEK293).
Species	Human
Source	HEK293
ProteinLength	His109-Thr270
Description	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- κ B 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.
Predicted N Terminal	His
Form	Lyophilized from 0.22 μ m filtered solution in PBS, pH7.4, 10% trehalose.
Molecular Mass	The protein has a calculated MW of 20.2 kDa. The protein migrates as 25-30 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

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Endotoxin	Less than 1.0 EU per µg by the LAL method.
Purity	>95% as determined by SDS-PAGE.
Storage	<p>For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower.</p> <p>Please avoid repeated freeze-thaw cycles.</p> <p>This product is stable after storage at:</p> <p>-20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.</p>
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 mg/ml. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

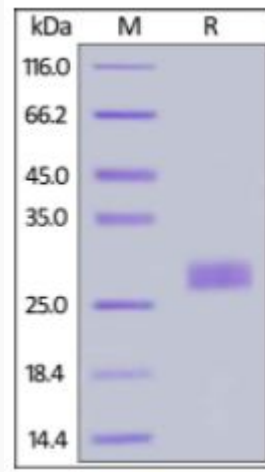
Gene Name	IL33
Official Symbol	IL33
Synonyms	DVS27; IL1F11; NF-HEV; NFEHEV; C9orf26
Gene ID	90865
mRNA Refseq	NM_001314044.2
Protein Refseq	NP_001300973.1
MIM	608678
UniProt ID	O95760

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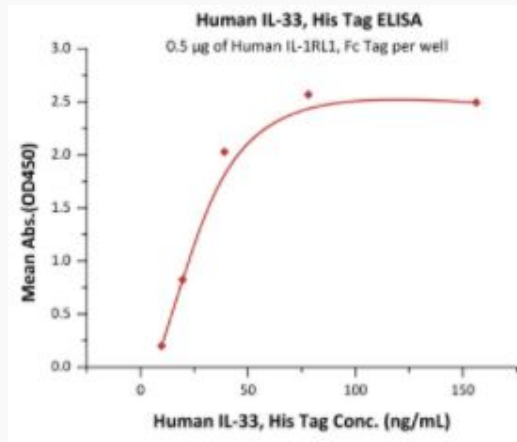
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SDS-PAGE of IL33-310H



Bioactivity-ELISA of IL33-310H



Immobilized Human IL-1RL1, Fc Tag at 5 µg/mL (100 µL/well) can bind Human IL-33, His Tag with a linear range of 5-20 ng/mL (QC tested).

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