

Active Recombinant Human IL33 Protein (Ser112-Thr270), C-His tagged, Animal-free, Carrier-free

Cat. No. IL33-312H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human IL33 Protein (Ser112-Thr270) with C-His tag was expressed in E. coli and Animal-free as well as Carrier-free.
Species	Human
Source	E.coli
ProteinLength	Ser112-Thr270
Description	Interleukin 33 (IL-33) is an 18 kDa cytokine with 169 amino acid residues. Interleukin-33 is a member of the IL-1 cytokine family and is primarily expressed in endothelial cells, epithelial cells, fibroblasts, and mesenchymal cells. When IL-33 binds to its receptor, ST2L, it activates mast cells and innate lymphoid cells and subsequently generates IL-5 and IL-13, which play essential roles in allergic inflammation. IL-33 also acts as an alarm by alerting the immune system of cellular damage and plays a critical role in type-2 innate immunity.
Form	Lyophilized
Bio-activity	Measure by its ability to binding with recombinant ST2L (IL-33 receptor). The ED50 for this effect is < 54 ng/mL. Measure by its ability to induce proliferation in D10.G4.1 cells. The ED50 for this effect is < 0.1 ng/mL. The specific activity of recombinant human IL-33 is approximately >4 ×

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	10 ⁷ IU/ mg.
Molecular Mass	The protein has a calculated MW of 18.93 kDa. The protein migrates as 19 kDa under reducing condition (SDS-PAGE analysis).
Endotoxin	< 0.1 EU/μg of the protein by the LAL method.
Purity	>98% as determined by SDS-PAGE analysis.
Storage	This product is stable after storage at: -20 centigrade for 12 months in lyophilized state from date of receipt. -20 or -80 centigrade for 1 month under sterile conditions after reconstitution. Avoid repeated freeze/thaw cycles.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile H ₂ O to a concentration not less than 200 μg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.
Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at -20 centigrade or lower for long term storage.

GENE INFORMATION

Gene Name	IL33 interleukin 33 [Homo sapiens (human)]
Official Symbol	IL33
Synonyms	IL33; interleukin 33; C9orf26, chromosome 9 open reading frame 26 (NF HEV); interleukin-33; DKFZp586H0523; DVS27; DVS27 related protein; IL1F11; interleukin

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1 family; member 11; NF HEV; nuclear factor for high endothelial venules; IL-33; IL-1F11; DVS27-related protein; interleukin-1 family member 11; nuclear factor from high endothelial venules; NF-HEV; NFEHEV; C9orf26; RP11-575C20.2;

Gene ID [90865](#)

mRNA Refseq [NM_001199640](#)

Protein Refseq [NP_001186569](#)

MIM [608678](#)

UniProt ID [O95760](#)

**SDS-PAGE analysis
of recombinant
human IL-33.**

kDa

75

63

48

35

25

17

10

