

Active Recombinant Human IL33 protein, FLAG-tagged

Cat. No. IL33-29791TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human IL33(aa 112-270) fused with FLAG tag at C-terminal was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	112-270 a.a.
Description	Interleukin-33 (IL-33; HF-NEV; IL-1F11), a member of the IL-1 family of cytokines, is expressed by many cell types following pro-inflammatory stimulation and is thought to be released on cell lysis. The 30kDa human IL33 is converted by CASP1 to a 18kDa protein. IL33 binds to and signals through ST2 (IL1R1) and its stimulation recruits MYD88, IRAK, IRAK4, and TRAF6, followed by phosphorylation of ERK1 (MAPK3)/ERK2 (MAPK1), p38 (MAPK14), and JNK. The ability of IL-33 to target numerous immune cell types, like Th2-like cells, mast cells, and B1 cells, and to induce cytokine and chemokine production underlines its potential in influencing the outcome of a wide range of diseases, such as arthritis, asthma, atopic allergy & anaphylaxis, cardiovascular disease/atherosclerosis, nervous system diseases, and sepsis.
Form	Liquid. 0.2µm-filtered solution in PBS, pH 7.2.
Bio-activity	Activates human ST2-dependent NF-κB pathway.

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Molecular Mass	~23kDa (SDS-PAGE)
Endotoxin	<0.1EU/μg purified protein (LAL test; Lonza).
Purity	≥90% (SDS-PAGE)
Stability	Working aliquots are stable for up to 3 months when stored at -20 centigrade.
Storage	Short Term Storage +4 centigrade; Long Term Storage -20 centigrade; After opening, prepare aliquots and store at -20 centigrade. Avoid freeze/thaw cycles.
Concentration	1mg/ml

GENE INFORMATION

Gene Name	IL33 interleukin 33 [Homo sapiens]
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 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

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MIM	608678
UniProt ID	O95760
Chromosome Location	9p24.1
Pathway	Cytosolic DNA-sensing pathway, organism-specific biosystem; Cytosolic DNA-sensing pathway, conserved biosystem; Influenza A, organism-specific biosystem; Influenza A, conserved biosystem;
Function	cytokine activity; protein binding;

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