

Active Recombinant Mouse Il33, His-tagged

Cat. No. Il33-358M Lot. No. (See product label)

SPECIFICATION

Product Overview Mouse IL-33 (aa 109-266) is fused at the C-terminus to a His-tag.

Species Mouse

Source E.coli

ProteinLength 109-266 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 55mM TRIS-Cl, pH 8.2, containing 150mM NaCl.

Bio-activity Activates human ST2-dependent NF-κB pathway.

Molecular Mass ~20kDa (SDS-PAGE)

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Purity	≥90% (SDS-PAGE)
Stability	Working aliquots are stable for up to 3 months when stored at -20°C.
Storage	Short Term Storage: +4°C; Long Term Storage: -20°C. After opening, prepare aliquots and store at -20°C. Avoid freeze/thaw cycles.
GENE INFORMATION	
Gene Name	IL33 interleukin 33 [<i>Mus musculus</i>]
Official Symbol	IL33
Synonyms	IL33; interleukin 33; interleukin-33; nuclear factor from high endothelial venules; IL-33; IL1f11; NF-HEV; 9230117N10Rik;
Gene ID	77125
mRNA Refseq	NM_001164724
Protein Refseq	NP_001158196
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; cytokine activity; cytokine activity;

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