

Active Recombinant Mouse Il33 Protein (Ser109-Ile266), C-His tagged, Animal-free, Carrier-free

Cat. No. Il33-295M Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Il33 Protein (Ser109-Ile266) with C-His tag was expressed in E. coli and Animal-free as well as Carrier-free.
Species	Mouse
Source	E.coli
ProteinLength	Ser109-Ile266
Description	Interleukin 33 (IL-33) is a 17.65 kDa cytokine with 159 amino acid residues. IL-33 is a member of the IL-1 family and secreted from various cell types, such as mast cells, macrophages, endothelial cells, and epithelial cells. IL-33 activates NF-κB and MAPK signaling pathways that stimulate the secretion of type 2 cytokines like IL-5 and IL-13 when IL-33 binds to the ST2 receptor primarily expressed in mast cells and Th2 cells. In addition to Th type 2 responses, IL-33 participates in maintaining barrier tissue defense.
Form	Lyophilized
Bio-activity	Measure by its ability to induce proliferation in D10.G4.1 cells. The ED50 for this effect is < 40 pg/mL. The specific activity of recombinant mouse IL-33 is > 2 × 10 ⁷ IU/mg.
Molecular Mass	The protein has a calculated MW of 18.51 kDa.

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	The protein migrates as 17-25 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 H2O 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 [<i>Mus musculus</i> (house mouse)]
Official Symbol	IL33
Synonyms	IL33; interleukin 33; interleukin-33; nuclear factor from high endothelial venules; IL-33; IL1f11; NF-HEV; 9230117N10Rik;
Gene ID	77125

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mRNA Refseq [NM_001164724](#)

Protein Refseq [NP_001158196](#)

UniProt ID [Q8BVZ5](#)

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