

Active Recombinant Mouse Il33 Protein (158 aa)

Cat. No. Il33-0261 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Il33 Protein without tag was expressed in E. coli.
Species	Mouse
Source	E.coli
ProteinLength	158
Description	IL-33 is a proinflammatory protein that shares structural and functional characteristics with the IL-1 cytokine family. It binds and signals through the IL-1RL1/ST2 receptor activating NF-kappaB and MAP kinases. IL-33 induces production of TH2 cell related cytokines, including IL-4, IL-5 and IL-13, and exerts multiple inflammation related bioactivities.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	The ED50 was determined by the dose-dependent stimulation of the proliferation of murine D10S cells is ≤ 0.5 ng/mL, corresponding to a specific activity of $\geq 2 \times 10^6$ units/mg.
Molecular Mass	Approximately 17.5 kDa protein containing 158 amino acid residues
AA Sequence	SIQGTSLLTQSPASLSTYNDQSVSFVLENGCYVINVDDSGKDQEQDQVLLRYYESPC PASQSGDGDVGKKLMVMNMSPIKDTDIWLHANDKDYSVELQRGDVSPPEQAFFVLHK KSSDFVSFECKNLPGTYIGVKDNQLALVEEKDESCNNIMFKLSKI

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Endotoxin	Less than 1 EU/mg of rmlL-33 as determined by LAL method.
Purity	>98% by SDS-PAGE and HPLC analyses.
Storage	This lyophilized preparation is stable at 2-8 centigrade, but should be kept at -20 centigrade for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8 centigrade. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20 to -70 centigrade. Avoid repeated freeze/thaw cycles.
Storage Buffer	Lyophilized from a 0.2mm filtered solution in PBS, EDTA and DTT.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at < -20 centigrade. Further dilutions should be made in appropriate buffered solutions.

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

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Protein Refseq	NP_001158196
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UniProt ID	Q8BVZ5
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