

Active Recombinant Mouse IL33 Protein

Cat. No. IL33-175M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse IL33 Protein without tag was expressed in E. coli.
Species	Mouse
Source	E.coli
Description	Interleukin 33 (IL-33) is a member of the IL-1 cytokine family and is constitutively expressed in smooth muscle and airway epithelial cells. IL-33 signals through the interleukin 1 receptor-like 1 (IL-1R1) and interleukin-1 receptor accessory protein (IL1RAP) receptors to activate NF-κB and MAPK signaling pathways. IL-33 functions to induce type 2 cytokine production in polarized Type 2 helper T (Th2) cells.
Bio-activity	D10S cell proliferation, ≤ 2 ng/mL; $\geq 5.0 \times 10^5$ units/mg (typical ED50 is < 1 ng/mL)
Molecular Mass	Monomer, 17.7 kDa (159 aa)
AA Sequence	MSIQGTSLLTQSPASLSTYNDQSVSFVLENGCYVINVDDSGKDQEQDQVLLRYYES PCPASQSGDGDGKKLMVMNMSPIKDTDIWLHANDKDYSVELQRGDVSPPEQAFFVL HKKSSDFVSFECKNLPPTYIGVKDNQLALVEEKDESCNNIMFKLSKI
Endotoxin	≤ 1 EUs/μg, Kinetic LAL
Purity	$\geq 90\%$, Reducing and Non-Reducing SDS PAGE
Stability	12 months from date of receipt when stored at -20 to -80 centigrade as supplied.

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	1 month when stored at 4 centigrade after reconstituting as directed. 3 months when stored at -20 to -80 centigrade after reconstituting as directed.
Storage	Storage Prior to Reconstitution: -20 centigrade
Storage Buffer	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium phosphate, pH 7.5
Reconstitution	Sterile water at 0.1 mg/mL
Shipping	Room temperature
Instructions	Centrifuge vial before opening. Suspend the product by gently pipetting the above recommended solution down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution. For prolonged storage, dilute to working aliquots in a 0.1% BSA solution, store at -80 centigrade and avoid repeat freeze thaws.

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
mRNA Refseq	NM_001164724
Protein Refseq	NP_001158196

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UniProt ID

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