

Recombinant Mouse Il33 protein

Cat. No. Il33-207M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Il33 protein was expressed in Escherichia coli.
Species	Mouse
Source	E.coli
ProteinLength	158
Description	IL-33 is a member of IL-1 superfamily, secreted by high endothelial venules at high levels, which is found in tonsils, peyer patches and mesenteric lymph nodes, but not in placenta. It elicits its biological effects by interacting with IL1RL1/ST2 and its stimulation recruits MYD88, IRAK1, IRAK4, and TRAF6, followed by phosphorylation of MAPK3/ERK1 and/or MAPK1/ERK2, MAPK14, and MAPK8. IL-33 induces production of TH2 cell related cytokines, including IL-4, IL-5 and IL-13, and exerts multiple inflammation related bioactivities. Mature IL-33 share approximately 55 % and 90 % a.a. sequence identity with human and rat IL-33 respectively.
Form	Lyophilized from a 0.2µm filtered solution in PBS, and 1 mM EDTA.
Bio-activity	Fully biologically active when compared to standard. The ED50 as determined by a cell proliferation assay using murine D10S cells is less than 0.5 ng/ml, corresponding to a specific activity of $> 2.0 \times 10^6$ IU/mg.
Molecular Mass	Approximately 17.5 kDa protein containing 158 amino acid residues.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

AA Sequence	SIQGTSLLTQSPASLSTYNDQSVSFVLENGCYVINVDDSGKDQEQDQVLLRYYESPC PASQSGDGVDGKKLMVNMSPDKDTDIWLHANDKDYSVELQRGDVSPPEQAFFVLHK KSSDFVSFECKNLPGTYIGVKDNQLALVEEKDESCNNIMFKLSKI
Endotoxin	Less than 1 EU/g of rMuIL-33 as determined by LAL method.
Purity	>98% by SDS-PAGE and HPLC analysis.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
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
Official Symbol	IL33
Synonyms	IL-1F11, NF-HEV
Gene ID	77125
mRNA Refseq	NM_001164724

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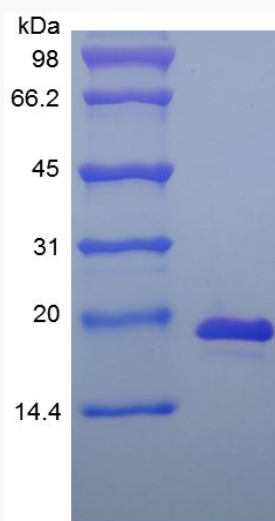
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Protein Refseq NP_001158196

UniProt ID Q8BVZ5

SDS-PAGE of Il33-
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