

Recombinant Mouse interleukin 33, His-tagged

Cat. No. IL33-637M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	IL33, 109-266aa, Mouse, His tag, E.coli
Species	Mouse
Source	E.coli
ProteinLength	109-266 a.a.
Description	Interleukin 33 (IL-33) is a 32kDa proinflammatory cytokine that may also regulate gene transcription in producer cells. IL-33 is structurally related to IL-1, which induces helper T cells to produce type 2 cytokines and acts through the receptor IL1RL-1 (IL1 receptor-like-1), which is known also as ST2. Binding of IL-33 to this receptor activates NF-kappa-B and MAP kinases and induces in vitro Th2 cells to produce cytokines. In vivo, IL-33 induces expression of IL-4, IL-5, IL-13 and leads to severe pathological changes in mucosal organs and in vitro, it can be divided to N-terminal fragment of 12kDa and C-terminal fragment of 18kDa by cleavage of caspase-1. Recombinant mouse IL33 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Form	Liquid. In Phosphate buffered saline, 10% glycerol, 1mM DTT
Molecular Mass	18.1kDa (181aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSSIQGTSL LTQSPASLST YNDQSVSFVL ENGCVINVD DSGKDQEQDQ VLLRYYESPC PASQSGDGVD GKMLVMNMSP

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IKDTDIWLHA NDKDYSVELQ RGDVSPPEQA FFVLHKKSSD FVSFECKNLP
 GTYIGVKDNQ LALVEEKDES CNNIMFKLSK I

Purity >85% by SDS - PAGE

Storage Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

Concentration 0.5 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name IL33 interleukin 33 [*Mus musculus*]

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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