

# Recombinant Rat Il33 protein, His-tagged

**Cat. No.** Il33-50R    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant rat Il33, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.                                                                                                                                                                                                                                                    |
| <b>Species</b>          | Rat                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Description</b>      | Il33 also known as Interleukin-33. Il33 induces production of large amounts of IL5 and IL13 by group 2 innate lymphoid cells (ILC2s), for initiation of allergic inflammation shortly after exposure to allergens or infection with parasites or viruses. Il33 appears to function as an alarmin (alarm signal) rapidly released from producing cells upon cellular damage or cellular stress. |
| <b>Form</b>             | Liquid. In Phosphate Buffered Saline (pH7.4) containing 10% glycerol                                                                                                                                                                                                                                                                                                                           |
| <b>Molecular Mass</b>   | 19.8kDa (179aa) confirmed by MALDI-TOF                                                                                                                                                                                                                                                                                                                                                         |
| <b>AA Sequence</b>      | MGSSHHHHHH SSGLVPRGSH MGSSIQGTSL LTESCALSTY NDQSVSFVLE<br>NGCYVINVED CGKNQEKDKV LLRYYESFP AQSGDGVGDK KLMVNMSPK<br>DTDIWLNAND KDYSVELQKG DVSPPDQAFF VLHKKSSDFV SFECKNLPGT<br>YIGVKDNQLA LVEENDESCN NIMFKLSKM                                                                                                                                                                                    |
| <b>Purity</b>           | >90% by SDS - PAGE                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Storage</b>          | Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot                                                                                                                                                                                                                                                                                                          |

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and store at -20 centigrade or -70 centigrade. Avoid repeated freezing and thawing cycles.

**Concentration** 0.5mg/ml (determined by Bradford assay)

## GENE INFORMATION

**Gene Name** IL33 interleukin 33 [ *Rattus norvegicus* ]

**Official Symbol** IL33

**Synonyms** IL33; interleukin 33; interleukin-33; IL-33; RGD1311155;

**Gene ID** 361749

**mRNA Refseq** NM\_001014166

**Protein Refseq** NP\_001014188

**MIM**

**UniProt ID**

**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;

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