

# Recombinant rat IL-33 protein

Catalog Number: ATGP3167

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

109-264aa

### UniProt No.

Q66H70

### NCBI Accession No.

NP\_001014188

### Alternative Names

Interleukin-33

## PRODUCT SPECIFICATION

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### Molecular Weight

19.8 kDa (179aa) confirmed by MALDI-TOF

### Concentration

0.5mg/ml (determined by Bradford assay)

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

### Purity

> 90% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

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. Recombinant rat IL33, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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### Amino acid Sequence

MGSSHHHHHH SGLVPRGSH MGSSIQGTSL LTESCALSTY NDQSVSFVLE NGCYVINVED CGKNQEKDKV LLRYESSFP  
AQSGDGVLDGK KLMVNMSPK DTDIWLNAND KDYSVELQKG DVSPPDQAFF VLHKKSSDFV SFECKNLPQT YIGVKDNQLA  
LVEENDESCN NIMFKLSKM

### General References

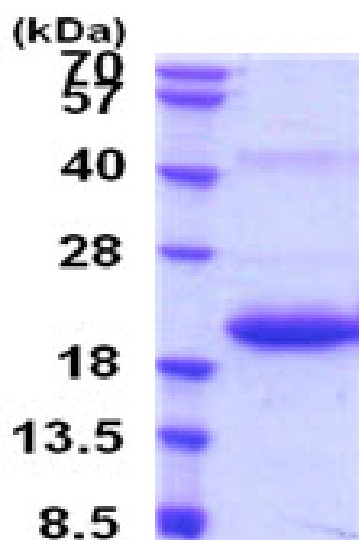
Cayrol C., et al. (2014) Current Opinion in Immunology. 31:31-37.

Pomeshchik Y., et al. (2015) Brain Behavior Immunity. 44:68-81

## DATA

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### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)