

## Mouse IL-33, His Tag, E. coli

Catalog Number	LDG055PME
Package	5 µg / 20 µg / 100 µg / Customized package

For full product information, images and publications, please visit [our website](#).



### Specifications

#### Species of Origin

Mouse

#### Expression system

Escherichia coli

#### Affinity Tag

His Tag (C-term)

#### Buffer

Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.

#### Purity

>98% as determined by SDS-PAGE analysis.

#### Molecular weight

The protein has a calculated MW of 18.51 kDa.  
The protein migrates as 17-25 kDa under reducing condition (SDS-PAGE analysis).

#### Activity

Measure by its ability to induce proliferation in D10.G4.1 cells. The ED<sub>50</sub> for this effect is <40 pg/mL.  
The specific activity of recombinant mouse IL-33 is > 2 x 10<sup>7</sup> IU/mg.

#### Endotoxin level

<0.1 EU per 1 µg of the protein by the LAL method.

#### Form

Lyophilized

### Background

#### Tainan Headquarter

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### Background

Interleukin 33 (IL-33) is a 17.65 kDa cytokine with 159 amino acid residues. IL-33 is a member of the IL-1 family and secreted from various cell types, such as mast cells, macrophages, endothelial cells, and epithelial cells. IL-33 activates NF- $\kappa$ B and MAPK signaling pathways that stimulate the secretion of type 2 cytokines like IL-5 and IL-13 when IL-33 binds to the ST2 receptor primarily expressed in mast cells and Th2 cells. In addition to Th type 2 responses, IL-33 participates in maintaining barrier tissue defense.

### Uniprot ID

#Q8BVZ5

### Synonyms

Interleukin-33, IL-33

### Sequence Note

Ser109-Ile266

## Instruction

### Reconstitution

It is recommended to reconstitute the lyophilized protein in sterile H<sub>2</sub>O to a concentration of 200  $\mu$ g/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.

### Stability & Storage

This product is stable after storage at:

- -20°C for 12 months in lyophilized state from date of receipt.
- -20°C or -80°C for 1 month under sterile conditions after reconstitution.

Avoid repeated freeze/thaw cycles.

### Shipping

The product is shipped with polar packs. Upon receipt, store it immediately at -20°C or lower for long term storage.

## Image

### Tainan Headquarter

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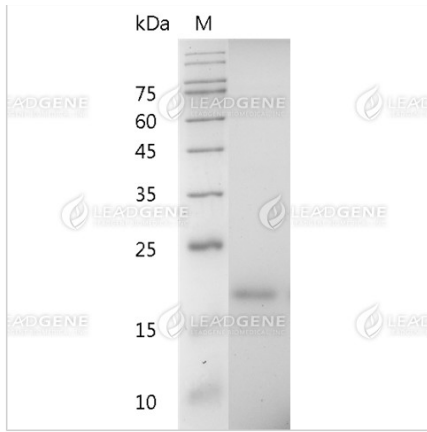
✉ [bd@leadgene.com.tw](mailto:bd@leadgene.com.tw)

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SDS-PAGE analysis of recombinant mouse IL-33.

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