

**General Information**

<b>Source</b>	<i>Escherichia coli</i>
<b>Synonyms</b>	Interleukin-33, C9orf26, DVS27, IL1F11, NFHEV
<b>Accession</b>	O95760
<b>Molecular Mass</b>	17.9 kDa
<b>Description</b>	Recombinant Human IL-33 is a 17.9 kDa protein containing 159 amino acid residues.
<b>Shipping</b>	The product is shipped at 4°C. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage</b>	Aliquot the reconstituted solution to minimize freeze-thaw cycles. Lyophilized protein should be stored at -20°C to -80°C, stable for one year after receipt. Aliquots of reconstituted samples are stable at ≤ -20°C for 3 months.
<b>Reconstitution</b>	Centrifuge tubes before opening. Dissolve the lyophilized protein in distilled water. Do not mix by vortex. It is recommended to dissolve the product at a concentration of twice the specified specification.
<b>Background</b>	IL-33 is a 270 amino acid, highly divergent protein belonging to the IL-1 family with an IL-1-like C-terminal domain. IL-33 is a dual function protein that may function both as a proinflammatory cytokine and an intracellular nuclear factor with transcriptional regulatory properties. IL-33 binds to and signals through IL1RL1/ST2 and its stimulation recruits MYD88, IRAK1, IRAK4, and TRAF6. IL-33 activates NF-kappaB and MAP kinases, and drives production of TH2-associated cytokines from in vitro polarized TH2 cells. In vivo, IL-33 induces the expression of IL-4, IL-5, and IL-13 and leads to severe pathological changes in mucosal organs. Despite its predicted molecular weight, IL-33 will often run at higher molecular weight in SDS-PAGE.

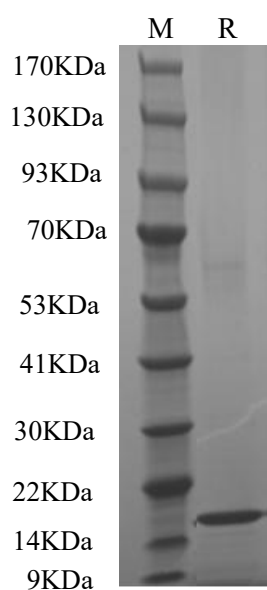
**Product For Research Use Only**

## Specifications

<b>Formulation</b>	Lyophilized from sterile PBS, pH 7.4, 5% trehalose.
<b>Purity</b>	≥95% as determined by SDS-PAGE
<b>Endotoxin</b>	<1 EU/ug
<b>Bio Activity</b>	Immobilized Anti-Human IL-33 Antibody at 0.2 ug/mL (50 uL/well) can bind Human IL-33 with a linear range of 1.56 - 200 ng/mL.

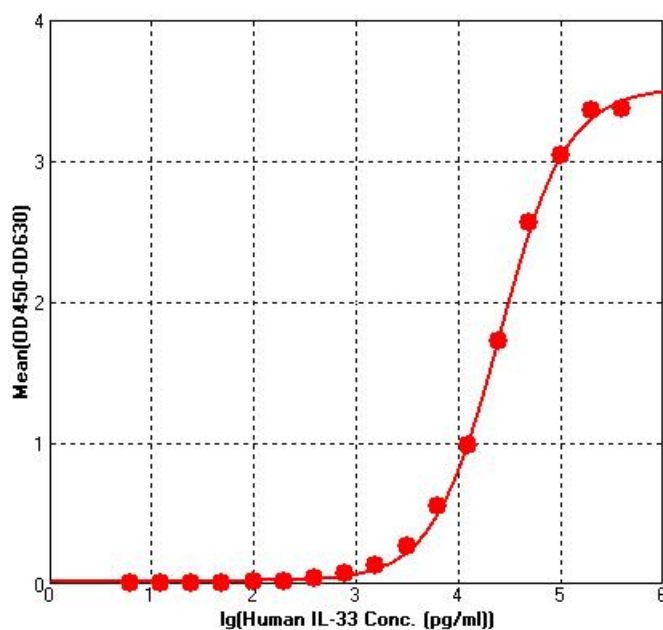
## Data

### SDS-PAGE



Greater than 95% as determined by reducing SDS-PAGE.

### Bioactivity-ELISA



Immobilized Anti-Human IL-33 Antibody at 0.2 ug/mL (50 uL/well) can bind Human IL-33 with a linear range of 1.56 - 200 ng/mL. (EC50 = 24.47 ng/mL)

**Product For Research Use Only**