

## Recombinant Human Interleukin-33/IL-33 Protein (His Tag)

Catalog Number: PKSH032642

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

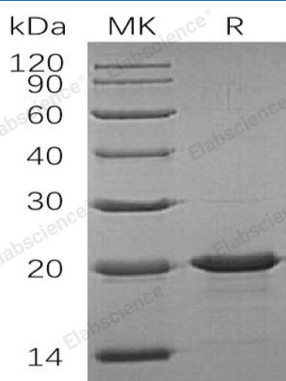
### Description

<b>Species</b>	Human
<b>Source</b>	E.coli-derived Human Interleukin-33;IL-33 protein Ser112-Thr 270, with an C-terminal His
<b>Calculated MW</b>	18.9 kDa
<b>Observed MW</b>	19 kDa
<b>Accession</b>	O95760
<b>Bio-activity</b>	Measure by its ability to binding with recombinant ST2L (IL-33 receptor). The ED <sub>50</sub> for this effect is <54 ng/mL. Measure by its ability to induce proliferation in D10.G4.1 cells. The ED <sub>50</sub> for this effect is < 0.1 ng/mL. The specific activity of recombinant human IL-33 is approximately >4 x10 <sup>7</sup> IU/ mg.

### Properties

<b>Purity</b>	> 98 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 0.1 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from sterile PBS, pH 7.4. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

### Data



> 98 % as determined by reducing SDS-PAGE.

### Background

Interleukin-33 (IL-33) belongs to the IL-1 superfamily. IL33 is highly expressed in endothelial venules found in tonsils; Peyer patches and mesenteric lymph nodes; but almost undetectable in placenta. IL33 induces the production of T helper-2 (Th2)-associated cytokines. IL-33 is a cytokine that mediates its biological effects by binding to and signals through IL1RL1/ST2 and IL-1 Receptor Accessory Protein (IL1RAP); activating intracellular molecules in the NF-κB and MAP kinase signaling pathways that drive production of type 2 cytokines from polarized Th2 cells.

### For Research Use Only

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