

## Recombinant Human IL-33

Catalog # EPT054

**Expression Host** E.coli

**DESCRIPTION** Recombinant Human Interleukin-33 is produced by

our E.coli expression system and the target gene

encoding Ser112-Thr270 is expressed.

Accession O95760

**Synonyms** Interleukin-33; IL-33; Interleukin-1 Family Member 11;

IL-1F11; Nuclear Factor From High Endothelial

Venules; NF-HEV; IL33; C9orf26; IL1F11; NFHEV

Mol Mass 18.1 KDa

**AP Mol Mass** 18 KDa, reducing conditions

Purity Greater than 95% as determined by reducing

SDS-PAGE.

**Endotoxin** Less than 0.001 ng/ $\mu$ g (0.01 EU/ $\mu$ g) as determined by

LAL test.

**FORMULATION** Lyophilized from a 0.2 µm filtered solution of 20mM

PB, 150mM NaCl, pH 7.4.

**RECONSTITUTION** Always centrifuge tubes before opening. Do not mix by



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vortex or pipetting.

It is not recommended to reconstitute to a concentration less than 100µg/ml.

Dissolve the lyophilized protein in distilled water.

Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

**SHIPPING** 

The product is shipped at ambient temperature.

Upon receipt, store it immediately at the temperature listed below.

**STORAGE** 

Lyophilized protein should be stored at < -20 ° C, though stable at room temperature for 3 weeks.

Reconstituted protein solution can be stored at 4-7°C for 2-7 days.

Aliquots of reconstituted samples are stable at < -20° C for 3 months.

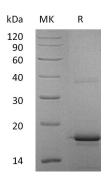
**BACKGROUND** 

Interleukin-33 (IL-33) was initially discovered as a nuclear factor NF-HEV abundantly expressed in high endothelial venules. It is a 30-32 kD pro-inflammatory protein with intracellular and extracellular activities and a chromatin-associated cytokine of the IL-1 family with high sequence and structural similarity to IL-1 and IL-18. IL-33 is highly and selectively expressed by





high endothelial venule endothelial cells (HEVECs) in human tonsils, Peyers's patches, and lymph nodes. It contains a bipartite nuclear localization signal at the C-terminus, and is targeted to the nucleus when ectopically expressed in human umbilical vein endothelial cells (HUVECs) and HeLa cells. The C-terminal fragment, corresponding to mature IL-33, binds and triggers signaling. IL-33 mediates its biological effects via Toll-interleukin 1 (IL-1) receptor (TIR) domain-containing receptor ST2, activates NF-kappaB and MAP kinases, and drives production of T(H)2-associated cytokines from in vitro polarized T(H)2 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. Human IL-33 is 270 amino acids in length.



## **SDS-PAGE**

+86-27-59760950



ELKbio@ELKbiotech.com



