

Recombinant Human IL-33 Protein

Catalog No.: RP00019 **Recombinant**

Sequence Information

Species Human **Gene ID** 90865 **Swiss Prot** O95760

Tags

No tag

Synonyms

IL33;C9orf26;DVS27;IL1F11;NF-HEV;NFEHEV

Background

Interleukin 33 (IL-33), also known as DVS27 or NF-HEV (Nuclear Factor from High Endothelial enules), is a proinflammatory protein and a chromatin-associated cytokine of the IL-1 family with high sequence and structural similarity to IL-1 and IL-18. The encoded protein is involved in the maturation of Th2 cells and the activation of mast cells, basophils, eosinophils and natural killer cells.

Basic Information

Description

Recombinant Human IL-33 Protein is produced by *E. coli* expression system. The target protein is expressed with sequence (Ser112-Thr270) of human IL-33 (Accession #NP_001300973.1).

Bio-Activity

1. Measured by its binding ability in a functional ELISA. Immobilized Recombinant human IL33 at 10 μ g/mL (100 μ L/well) can bind Recombinant human IL1RL1 with a linear range of 37.8-151.4 ng/mL. 2. Measured in a cell proliferation assay using D10.G4.1 mouse helper T cells. The ED₅₀ for this effect is 0.1857-0.7428 ng/mL, corresponding to a specific activity of 1.3×10^6 – 5.4×10^6 units/mg.

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. Avoid repeated freeze/thaw cycles.

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

Product Information

Source

E. coli

Purification

$\geq 95\%$ as determined by SDS-PAGE.

Calculated MW

17.99 kDa

Observed MW

19 kDa

Endotoxin

< 0.1 EU/ μ g of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μ m filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

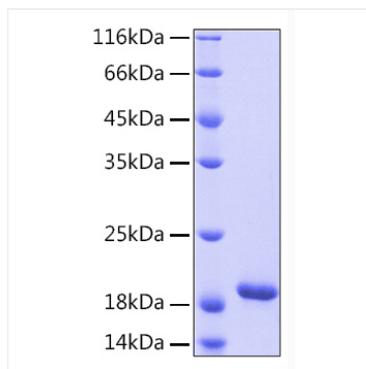
Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

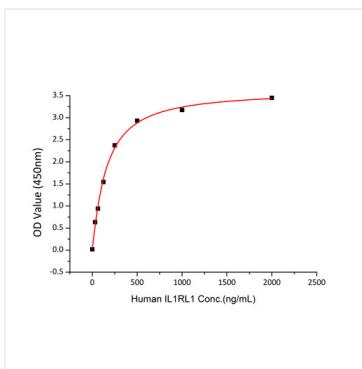
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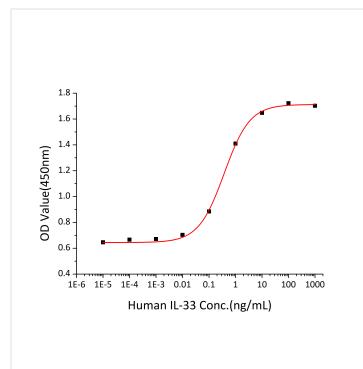
Validation Data



Recombinant Human IL-33 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Immobilized Recombinant human IL33 at 10 μ g/mL (100 μ L/well) can bind Recombinant human IL1RL1 with a linear range of 37.8-151.4 ng/mL.



Measured in a cell proliferation assay using D10.G4.1 mouse helper T cells. The ED₅₀ for this effect is 0.1857-0.7428 ng/mL, corresponding to a specific activity of $1.3 \times 10^6 \sim 5.4 \times 10^6$ units/mg.