Recombinant Human IL-33 Protein

Catalog No.: RP00019

Sequence Information

Species
Human

Gene ID
90865

Swiss Prot
O95760

Tags
No tag

Synonyms
IL33,C9orf26,DVS27,IL1F11,NF-HEV,NFEHEV

Product Information

Source
E. coli

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
17.99 kDa

Observed MW
19 kDa

Endotoxin
< 0.1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from a 0.22 μm 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 stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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).

Activity
1.Measured by its binding ability in a functional ELISA. Immobilized Recombinant human IL33 at 10 μg/mL (100 μL/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 ED_{50} 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
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

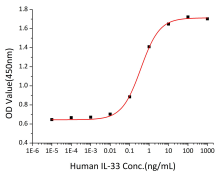
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

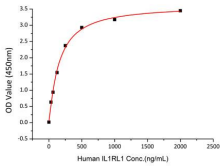
400-999-6126
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Please visit http://abclonal.com for a complete listing of recommended products.

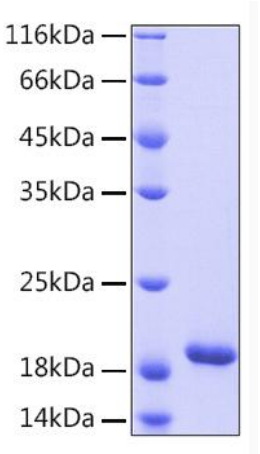
Validation Data



Measured in a cell proliferation assay using D10.G4.1 mouse helper T cells. The ED_{50} 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.



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



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