

Canine IL33 / Interleukin-33 / NF-HEV Protein



Sino Biological
Biological Solution Specialist

Catalog Number: 70005-DNAE

General Information

Gene Name Synonym:

IL33

Protein Construction:

A DNA sequence encoding the mature form of canine IL33 (O97863) (Ser 110-Ser 263) was expressed, with an initial Met at the N-terminus.

Source: Canine

Expression Host: E. coli

QC Testing

Purity: > 97 % as determined by SDS-PAGE

Bio Activity:

Measured by its binding ability in a functional ELISA. Immobilized Canine IL33 (Cat:70005-DNAE) at 10 µg/ml (100 µl/well) can bind human IL1R4-Fc (Cat:10105-H02H). The EC₅₀ of human IL1R4-Fc (Cat:10105-H02H) is 0.25-0.66 µg/ml.

Endotoxin:

Please contact us for more information.

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Met

Molecular Mass:

The recombinant canine IL33 consists of 155 amino acids and has a calculated molecular mass of 17.8 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 19KDa band.

Formulation:

Lyophilized from sterile 5mM EDTA, PBS, pH 7.5

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

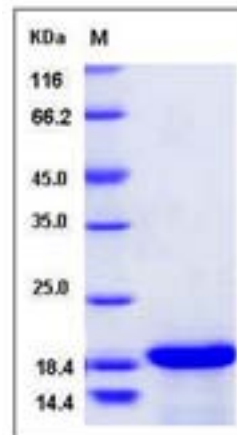
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

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. IL-33 protein is expressed highly and rather selectively by high endothelial venule endothelial cells (HEVECs) in human tonsils, Peyer's patches, and lymph nodes. IL-33 protein has transcriptional regulatory properties, and the researches suggested that IL-33 is a dual-function protein that might act both as a cytokine and as an intracellular nuclear factor. As a type 2 cytokines, IL-33 protein also play a pivotal role in helminthic infection and allergic disorders.

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