# **CS** CHASELECTION

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#### Version: ATT-PA-03.A00

# CHASELECTION

# Recombinant Human Interleukin- 33/ IL-

#### 33

Catalog Number: CY045F0XXX

#### Synonym: NF-HEV

Source: E.coli

#### Structure:

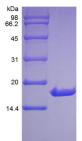
Gene ID: NP\_254274 AA Sequence: SITGISPITE YLASLSTYND QSITFALEDE SYEIYVEDLK KDEKKDKVLL SYYESQHPSN ESGDGVDGKM LMVTLSPTKD FWLHANNKEH SVELHKCEKP LPDQAFFVLH NMHSNCVSFE CKTDPGVFIG VKDNHLALIK VDSSENLCTE NILFKLSET

#### Molecular Weight: 18.21kDa

#### **Purity:**

≥95% as determind by SDS-PAGE & HPLC

# **SDS-PAGE**



SDS-PAGE showed a protein molecular weight of approximately 18.2kDa

 $\textbf{Endotoxin:}{<}0.5 \; \text{EU/}{\mu g}$ 

# Formulation:

20mM PB, 150mM NaCl, 1mM EDTA, pH 7.4

# Reconstitution

1. Before opening, please briefly centrifuge the contents to the bottom;

2. It is recommended to initially dissolve in sterile deionized water to an appropriate concentration (recommended concentration is 0.2-1mg/ml);

3.If further dilution is required, it is recommended to dilute the solution with a solution containing carrier proteins (eg., 0.1% BSA, 10% FBS, and 5% HSA).

# Shipping & Storage:

The product is shipped with blue ice.

If long-term storage is required, this product should be stored at  $\leq$  -20°C, please avoid repeated freeze-thaw cycles.

1. Dry powder can be stored at  $\leq$  -20°C for at least 24 months;

2. After reconstitution, it can be stored for 1 month under sterile conditions at 2-8  $^{\circ}$ C;

3. After reconstitution, it can be stored for 12 months under sterile conditions at  $-20 \sim -70$  °C.

# **Description:**

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 Cterminus, and is targeted to the nucleus when ectopically expressed in human umbilical vein endothelial cells (HUVECs) and HeLa cells. The Cterminal 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 NFkappaB 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.



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