

IL-33 Protein, Mouse, Recombinant

General Information

Synonyms:	Interleukin-1 family member 11;NF-HEV and IL- 1F11;NKHEV;IL-33;Interleukin 33;DVS27;IL33; C9orf26
Protein Construction:	Ser109-Ile266
Species:	Mouse
Expression Host:	E. coli
Accession:	Q8BVZ5
Molecular Weight:	18 KDa (reducing condition)
AA Sequence:	Ser109-Ile266

QC Testing

Biological Activity:	Immobilized Mouse IL-33 at 5µg/ml (100 µl/well) can bind Mouse ST2-Fc. The ED50 of Mouse ST2-Fc is 0.33 ug/ml. (Regularly tested)
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.001 ng/µg (0.01 EU/µg) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS, 1 mM DTT, pH 7.4.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 µg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months.

Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Mouse Interleukin 33 (IL-33) is a 30 kDa proinflammatory cytokine which may also regulates gene transcription in producer cells. IL-33 is constitutively expressed in smooth muscle and airway epithelia. IL-33 was identified based on sequence and structural homology with IL-1 family cytokines. It is up-regulated in arterial smooth muscle, dermal fibroblasts, and keratinocytes following IL-1 alpha or IL-1 beta stimulation. IL-33 is structurally related to

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IL-1, which induces helper T cells to produce type 2 cytokines and acts through the receptor IL1RL-1. Binding IL-33 to this receptor activates NF-kappa-B and MAP kinases and induces in vitro Th2 cells to produce cytokines. In vivo, IL-33 induces the expression of IL-4, IL-5, IL-13 and also leads to severe pathological changes in mucosal organs.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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