

IL-33 Protein, Rhesus macaque, Recombinant (His)

General Information

Synonyms:	Interleukin-33;IL1F11;IL33;IL-1F11;Interleukin-1 Family Member 11;C9orf26;NFHEV;IL-33;NF-HEV;Nuclear Factor From High Endothelial Venues
Protein Construction:	Ser112-Ile270
Species:	Rhesus
Expression Host:	E. coli
Accession:	F7DLG4
Molecular Weight:	21 KDa (reducing condition)
AA Sequence:	Ser112-Ile270

QC Testing

Biological Activity:	Immobilized Mouse ST2-His at 5µg/ml (100 µl/well) can bind Rhesus Macaque IL-33-His. The ED50 of Rhesus Macaque IL-33-His is 82.03 ng/ml. (Regularly tested)
Endotoxin:	< 0.1 ng/µg (1 EU/µg) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS, 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

Interleukin-33 (IL-33) belongs to the IL-1 superfamily. IL33 is highly expressed in endothelial venules found in tonsils, Peyer patches and mesenteric lymph nodes, but almost undetectable in placenta. IL33 induces the production of T helper-2 (Th2)-associated cytokines. IL-33 is a cytokine that mediates its biological effects by binding to and signals through IL1RL1/ST2 and IL-1 Receptor Accessory Protein (IL1RAP), activating intracellular molecules in the NF-κB and MAP kinase signaling pathways that drive production of type 2 cytokines from polarized Th2 cells.

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