

## IL-33 Protein, Human, Recombinant (His)

### General Information

Synonyms:	IL1F11;NFEHEV;IL33;RP11-575C20.2;C9ORF26;C9orf26 Z;NF-HEV;DVS27;DV27
Protein Construction:	His109-Thr270
Species:	Human
Expression Host:	HEK293 Cells
Accession:	NP_254274.1
Molecular Weight:	19.43 kDa (Predicted); 26-30 kDa (Reducing condition, due to glycosylation)

### QC Testing

Biological Activity:	Immobilized Human IL-1RL1, hFc Tag at 1 µg/ml (100 µl/well) on the plate. Dose response curve for Human IL-33, His Tag with the EC50 of 1.93 µg/ml determined by ELISA (QC Test).
Purity:	> 95% as determined by Bis-Tris PAGE; > 90% as determined by HPLC
Endotoxin:	< 1 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

### 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:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. 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) is a cytokine belonging to the IL-1 family, playing a role in inflammatory, infectious and autoimmune diseases and expressed in the cellular nucleus in several tissues. High levels of IL-33 are expressed in epithelial barrier tissues and endothelial barriers. ST2 is a receptor for IL-33, expressed selectively on a subset of Th2 cells, mediating some of their functions.

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