

IL-33 Protein, Cynomolgus, Recombinant (His)

General Information

Synonyms:	IL1F11;C9orf26 Z;C9ORF26;DV27;RP11-575C20.2;NFEHEV;IL33;DVS27;NF-HEV
Protein Construction:	His109-Ile270
Species:	Cynomolgus
Expression Host:	HEK293 Cells
Accession:	A0A2K5W3I1-1
Molecular Weight:	19.2 kDa (predicted). Due to glycosylation, the protein migrates to 25-30 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Human IL-1RL1, His Tag immobilized on CM5 Chip can bind Cynomolgus IL-33, His Tag with an affinity constant of 46.85 nM as determined in SPR assay.
Purity:	> 95% as determined by Tris-Bis PAGE
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent 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.

Reference

Liew FY, et al. Interleukin-33 in health and disease. Nat Rev Immunol. 2016;16(11):676-689. doi:10.1038/nri.2016.95

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