

Cynomolgus IL-33 Protein

Cat. No. IL3-CM133

Description

Source	Recombinant Cynomolgus IL-33 Protein is expressed from HEK293 with His tag at the N-Terminus. It contains His109-Ile270.
Accession	A0A2K5W311-1
Molecular Weight	The protein has a predicted MW of 19.2 kDa. Due to glycosylation, the protein migrates to 25-30 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE

Formulation and Storage

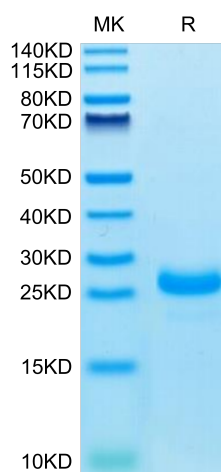
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -20 to -80°C for 3-6 months in unopened state after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

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.

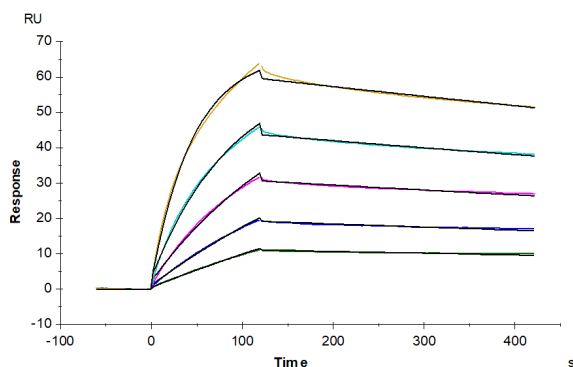
Assay Data

Tris-Bis PAGE



Cynomolgus IL-33 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

SPR Data



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 (Biacore T200).