

Cynomolgus IL-4 Protein

Cat. No. IL4-CM101



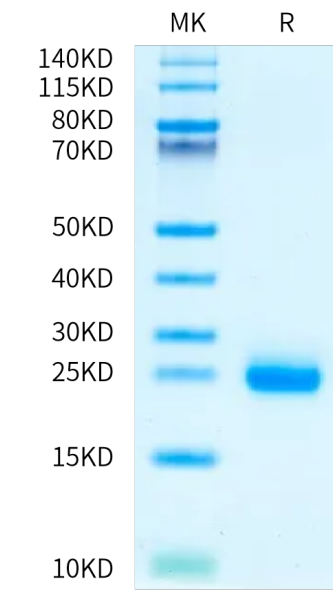
Description	
Source	Recombinant Cynomolgus IL-4 Protein is expressed from HEK293 with His tag at the C-Terminus. It contains His25-Ser153.
Accession	P79339-1
Molecular Weight	The protein has a predicted MW of 16.03 kDa. Due to glycosylation, the protein migrates to 20-28 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage	
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background	
Interleukin-4, also known as IL4, is a secreted protein which belongs to the IL-4 / IL-13 family. Interleukin-4 / IL4 has many biological roles, including the stimulation of activated B-cell and T-cell proliferation. In the presence of IL-4 and IL-13, cytokines that are produced in a Th-2 type response, particularly during allergy and parasitic infections, macrophages become differentially activated, And this cytokine is a ligand for interleukin 4 receptor. .	

Assay Data

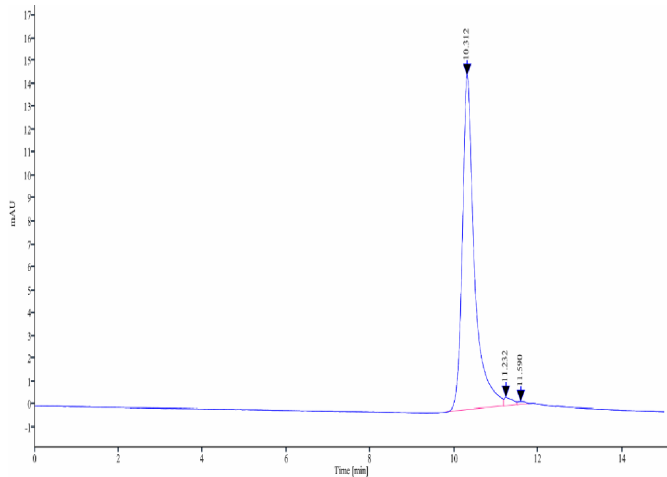
Bis-Tris PAGE



Cynomolgus IL-4 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

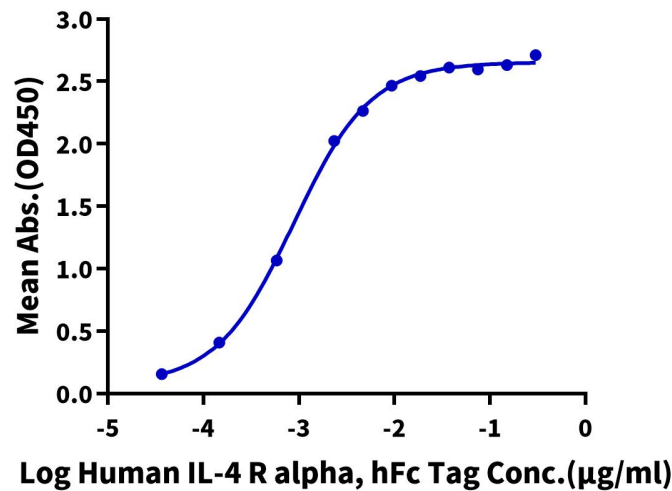
Assay Data



The purity of Cynomolgus IL-4 is greater than 95% as determined by SEC-HPLC.

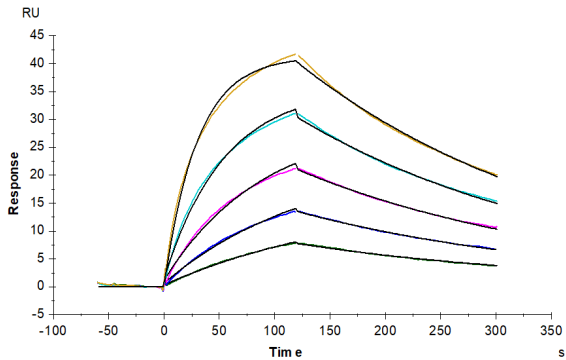
ELISA Data

Cynomolgus IL-4, His Tag ELISA
0.2μg Cynomolgus IL-4, His Tag Per Well



Immobilized Cynomolgus IL-4, His Tag at 2μg/ml (100μl/well) on the plate. Dose response curve for Human IL-4 R alpha, hFc Tag with the EC50 of 0.88ng/ml determined by ELISA (QC Test).

SPR Data



Cynomolgus IL-4, His Tag immobilized on CM5 Chip can bind Cynomolgus IL-4 R alpha, His Tag with an affinity constant of 13.48 nM as determined in SPR assay (Biacore T200).