

Cynomolgus IL-12 Protein

Cat. No. IL1-CM112



Description	
Source	Recombinant Cynomolgus IL-12 Protein is expressed from HEK293 with His tag at the C-Terminus of IL-12A. It contains Arg57-Ser253 (IL-12A) and Ile23-Ser328 (IL-12B).
Accession	G7P6S2(IL-12B)&XP_005546300.2(IL-12A)
Molecular Weight	The protein has a predicted MW of 34.76 kDa (IL-12B) and 23.64 kDa (IL-12A). Due to glycosylation, the protein migrates to 45-48 kDa (IL-12B) and 38-44 kDa (IL-12A) 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 12 (IL-12) is a pleiotropic cytokine that plays an essential role in Th1-type immune response against cancer, a condition where cells in a particular part of the body grow and reproduce uncontrollably.	

Assay Data

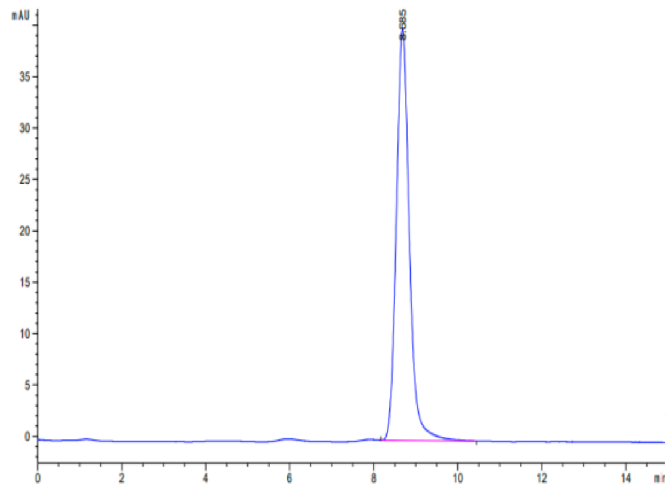
Bis-Tris PAGE



Cynomolgus IL-12 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

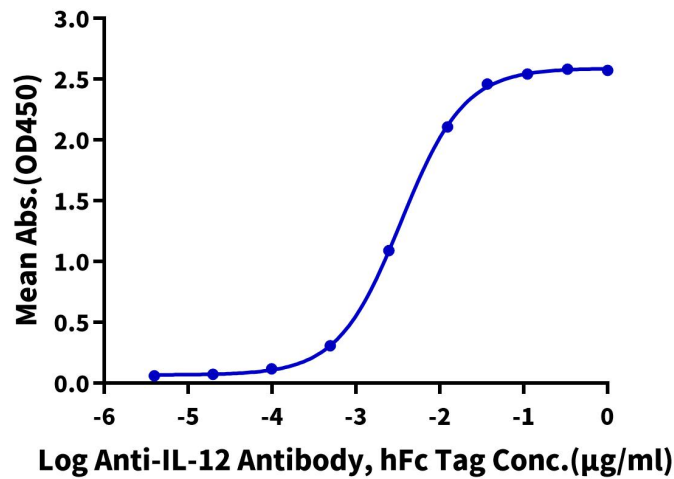
Assay Data



The purity of Cynomolgus IL-12 is greater than 95% as determined by SEC-HPLC.

ELISA Data

Cynomolgus IL-12 , His Tag ELISA
0.05µg Cynomolgus IL-12 , His Tag Per Well



Immobilized Cynomolgus IL-12, His Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Anti-IL-12 Antibody, hFc Tag with the EC50 of 3.5ng/ml determined by ELISA.