

# Cynomolgus IL-12 Protein

Cat. No. IL1-CM112



## Description

<b>Source</b>	Recombinant Cynomolgus IL-12 Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Ile23-Ser328 (IL-12B) & Arg57-Ser253 (IL-12A).
<b>Accession</b>	G7P6S2(IL-12B)&XP_005546300.2(IL-12A)
<b>Molecular Weight</b>	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 Tris-Bis PAGE result.
<b>Endotoxin</b>	Less than 1EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

## Formulation and Storage

<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-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 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.

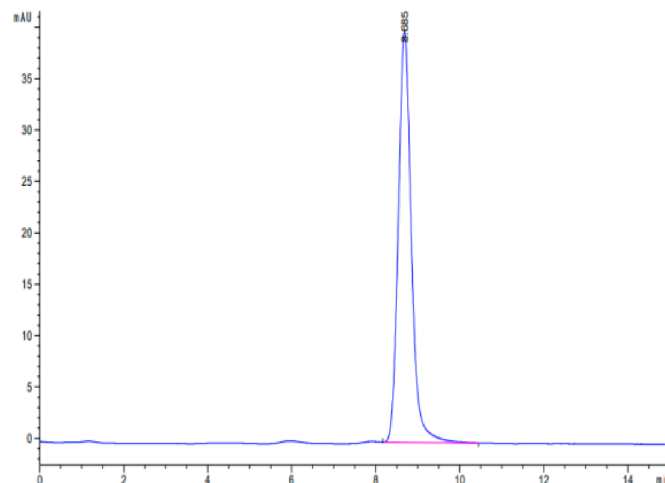
## Assay Data

### Tris-Bis PAGE



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

### SEC-HPLC



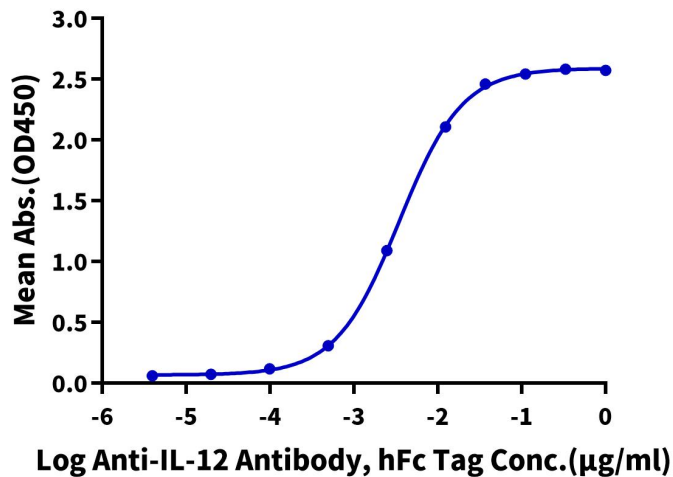
The purity of Cynomolgus IL-12 is greater than 95% as determined by SEC-HPLC.

Assay Data

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.