

Biotinylated Human IL-12 Protein

Cat. No. IL1-HM412B

Description

Source	Recombinant Biotinylated Human IL-12 Protein is expressed from Expi293 with His tag and Avi tag at the C-terminal. It contains Ile23-Ser328(IL-12B)/Arg23-Ser219(IL-12A).
Accession	P29460(IL-12B)&P29459(IL-12A)
Molecular Weight	The protein has a predicted MW of 34.7(IL-12B) kDa / 25.5 (IL-12A) kDa. Due to glycosylation, the protein migrates to 40-45 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 > 95% as determined by HPLC

Formulation and Storage

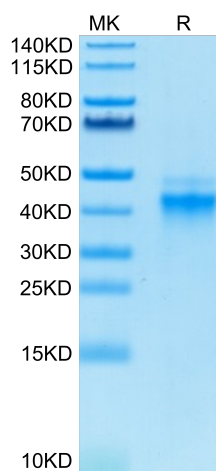
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 5% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge tubes before opening. Reconstituting to a concentration more than 100 µg/ml is recommended (usually we use 1mg/ml solution for lyophilization). 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 avoid 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



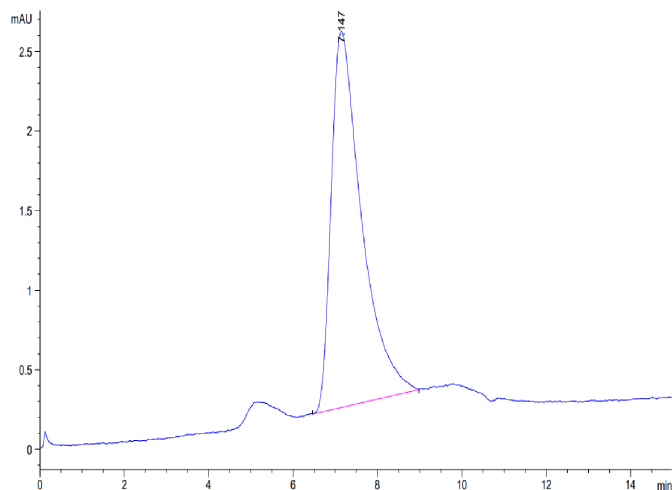
Biotinylated Human IL-12 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

Biotinylated Human IL-12 Protein

Cat. No. IL1-HM412B

Assay Data

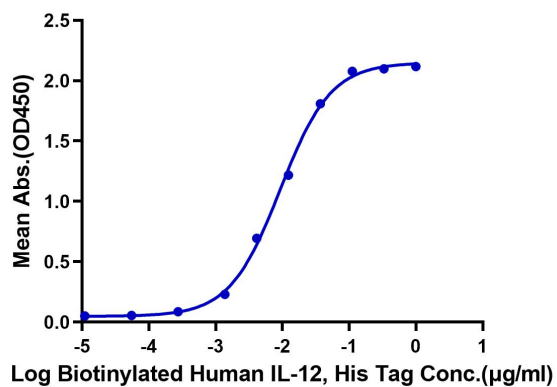


The purity of Biotinylated Human IL-12 is greater than 95% as determined by SEC-HPLC.

ELISA Data

Biotinylated Human IL-12, His Tag ELISA

0.05µg Anti-IL-12 Antibody, hFc Tag Per Well



Immobilized Anti-IL-12 Antibody, hFc Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Human IL-12, His Tag with the EC50 of 9.3ng/ml determined by ELISA.