

Biotinylated Human IL-2 Protein

Cat. No. IL2-HM401B

Description

Source	Recombinant Biotinylated Human IL-2 Protein is expressed from HEK293 with His tag and Avi tag at the C-terminus. It contains Ala21-Thr153.
Accession	P60568
Molecular Weight	The protein has a predicted MW of 18.32 kDa. Due to glycosylation, the protein migrates to 19-25 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage

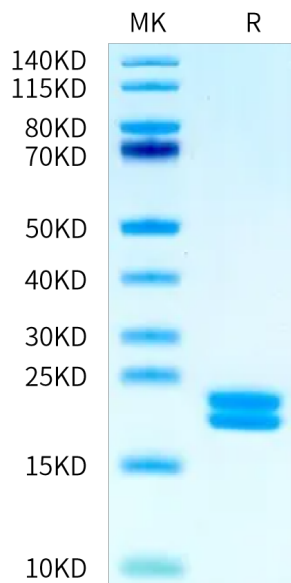
Formulation	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
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-2 (IL-2) is an interleukin, a type of cytokine signaling molecule in the immune system. It is a 15,5 - 16 kDa protein that regulates the activities of white blood cells (leukocytes, often lymphocytes) that are responsible for immunity. IL-2 has essential roles in key functions of the immune system, tolerance and immunity, primarily via its direct effects on T cells.

Assay Data

Bis-Tris PAGE



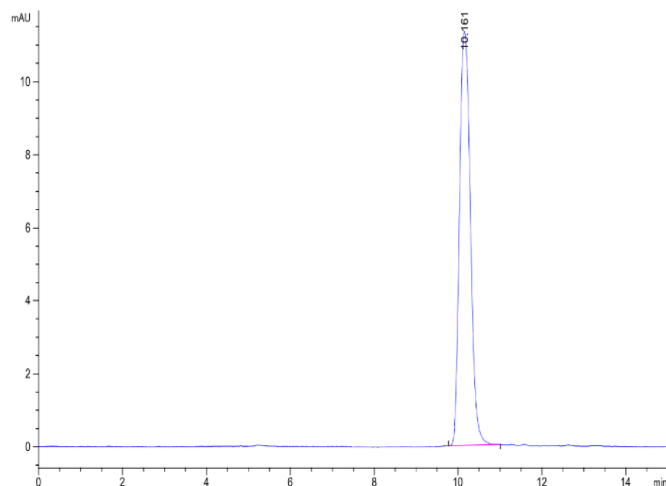
Biotinylated Human IL-2 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

Biotinylated Human IL-2 Protein

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Assay Data

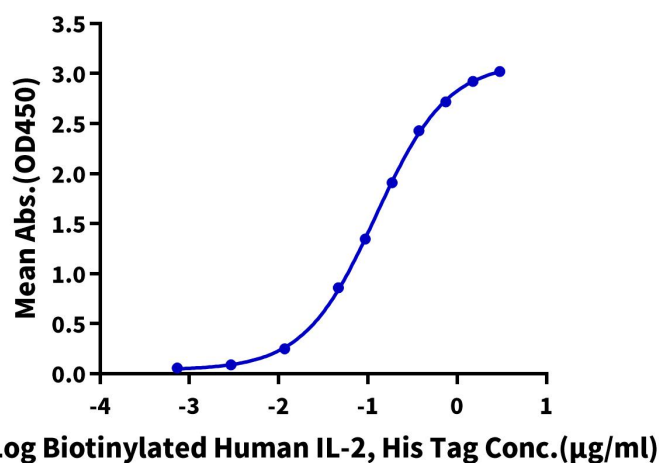


The purity of Biotinylated Human IL-2 is greater than 95% as determined by SEC-HPLC.

ELISA Data

Biotinylated Human IL-2, His Tag ELISA

0.1 μ g Human IL-2 R alpha, His Tag Per Well



Immobilized Human IL-2 R alpha, His Tag at 1 μ g/ml (100 μ l/well) on the plate. Dose response curve for Biotinylated Human IL-2, His Tag with the EC₅₀ of 0.12 μ g/ml determined by ELISA (QC Test).