

RP03534

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Biotinylated Recombinant Human IL-2 Protein

Catalog No.: RP03534

Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
HEK293 Cells	3558	P60568

Tags

C-His&Avi

Synonyms

IL2; Interleukin-2; IL-2; T-cell growth factor; TCGF; Aldesleukin

Product Information

Source

Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.

Purification

≥ 95 % as determined by Tris-Bis PAGE; ≥ 95 % as determined by HPLC.

Endotoxin

< 1 EU/µg of the protein by LAL method.

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.

Background

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. Interaction with the receptor leads to oligomerization and conformation changes in the IL-2R subunits resulting in downstream signaling starting with phosphorylation of JAK1 and JAK3 (PubMed:7973659). In turn, JAK1 and JAK3 phosphorylate the receptor to form a docking site leading to the phosphorylation of several substrates including STAT5.

Basic Information

Description

Biotinylated Recombinant Human IL-2 Protein is produced by HEK293 Cells expression system. The target protein is expressed with sequence (Ala21-Thr153) of Human IL-2 (Accession # NP_000577.2) fused with His tag and Avi tag at the C-terminus.

Bio-Activity

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

Shipping

Lyophilized proteins are shipped at ambient temperature. Liquid proteins are shipped at frozen temperature with dry ice. Upon receipt, store it immediately at the temperature recommended below.

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

Storage

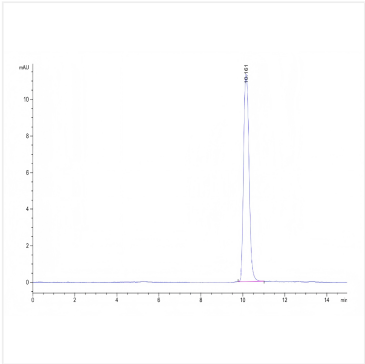
Store at -20°C
Avoid repeated freeze/thaw cycles.

Contact

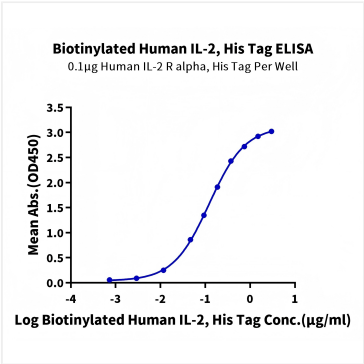


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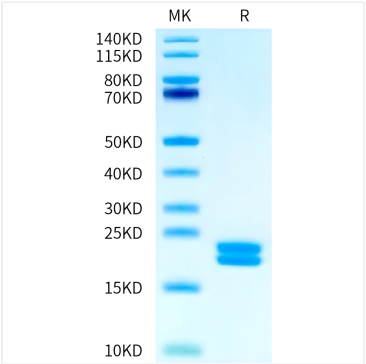
* For your safety and health, please wear a lab coat and disposable gloves when handling.



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



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



Biotinylated Recombinant Human IL-2 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.