Biotinylated Recombinant Human IL-2 Protein

Catalog No.: RP03534

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Sequence Information

Species
Human

Gene ID
3558

Swiss Prot
P60568

Tags
C-His&Avi

Synonyms
IL2,Interleukin-2, IL-2, T-cell growth factor, TCGF, Aldesleukin

Product Information

Source
HEK293 Cells

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

Calculated MW
18.32 kDa

Observed MW
19-25 kDa

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.

Activity
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

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.

Storage
Store at -20℃

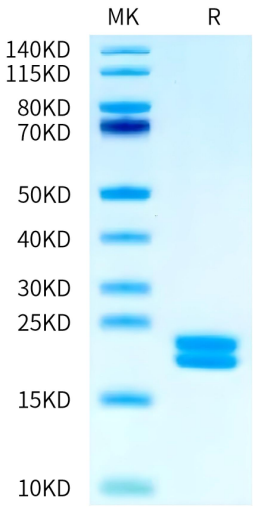
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

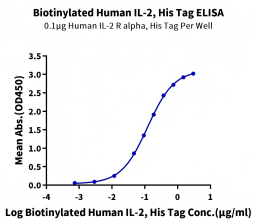
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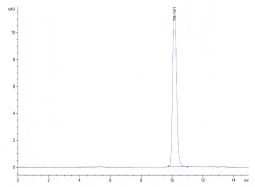
Validation Data



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



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 .



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