

Biotinylated Recombinant Human IL-2 Protein

Catalog No.: RP03534 Recombinant

Sequence Information

Species Gene ID Swiss Prot Human 3558 P60568

Tags

C-His&Avi

Synonyms

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

Product Information

Source

Purification

HEK293 Cells ≥

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

Calculated MW Observed MW

18.32 kDa 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 $100~\mu g/ml$ is recommended. Dissolve the lyophilized protein in distilled water.

Contact

2	400-999-6126
\bowtie	cn.market@abclonal.com.cn
•	www.abclonal.com.cn

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

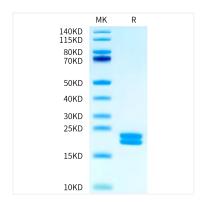
Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

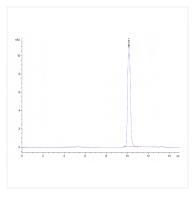
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

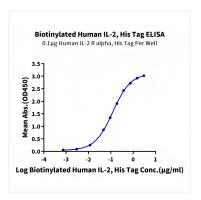
Validation Data



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



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 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 .