

Human IL-2, His Tag, E. coli

Catalog Number LDG004PHE

Package 5 µg / 20 µg / 100 µg / Customized package

For full product information, images and publications, please visit [our website](#).



Specifications

Species of Origin

Human

Affinity Tag

His Tag (C-term)

Purity

>98% as determined by SDS-PAGE analysis.

Activity

Measure by its ability to induce proliferation in CTLL-2 cells. The ED₅₀ for this effect is <3 ng/mL. The specific activity of recombinant human IL-2 is >5 x 10⁶ IU/mg.

Form

Lyophilized

Expression System

Escherichia coli

Storage Buffer

Lyophilized from a 0.2 µm filtered solution of NaPi buffer, 0.018% SDS, pH 7.5.

Molecular weight

The protein has a calculated MW of 16.4 kDa. The protein migrates as 13 kDa under reducing condition (SDS-PAGE analysis).

Endotoxin Level

<0.05 EU per 1 µg of the protein by the LAL method.

Background

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Background

Interleukin-2 (IL-2) is a 15.5 kDa four bundle, immuno-modulatory cytokine which is expressed predominately by antigen-simulated CD4+ T cells, CD8+ T cells, natural killer (NK) cells, and dendritic cells (DC). IL-2 plays a fundamental role in promoting NK cell proliferation, cytotoxicity, and B cells differentiation. IL-2 modulate T cell differentiation programs, promoting naïve CD4+ T cell differentiation into T helper-1 (Th1) and T helper-2 (Th2) cells.

Uniprot ID

#P60568

Synonyms

Interleukin-2, T-cell Growth Factors , TCGF

Sequence Note

Ala21-Thr153

Instruction

Reconstitution

It is recommended to reconstitute the lyophilized protein in sterile H₂O to a concentration not less than 200 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.

Stability & Storage

This product is stable after storage at:

- -20°C for 12 months in lyophilized state from date of receipt.
- -20°C or -80°C for 1 month under sterile conditions after reconstitution.

Avoid repeated freeze/thaw cycles.

Shipping

The product is shipped with polar packs. Upon receipt, store it immediately at -20°C or lower for long term storage.

Image

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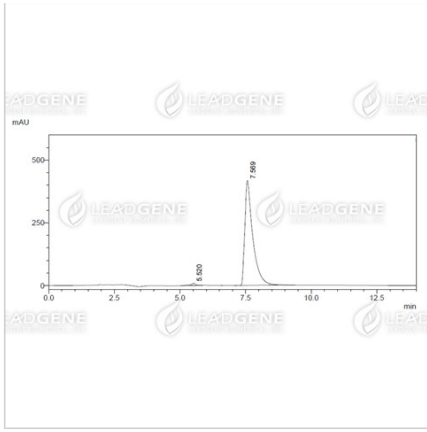
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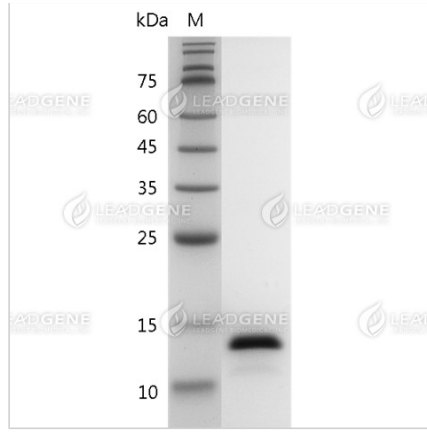
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The purity of recombinant human IL-2 is greater than 95% as determined by SEC-HPLC.



SDS-PAGE analysis of recombinant human IL-2

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