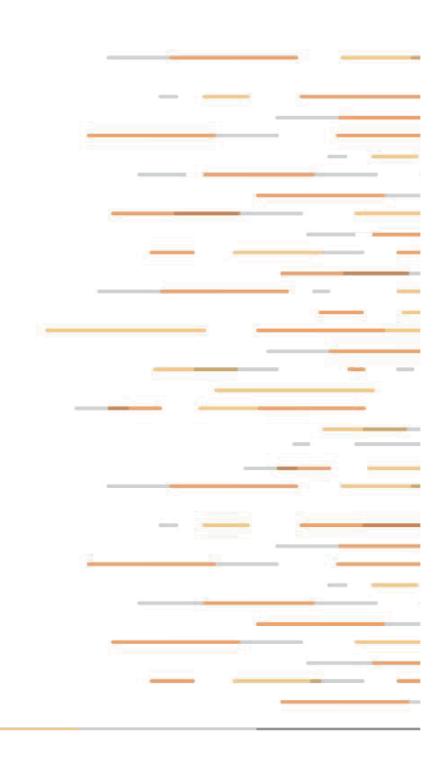
CHAMOT

Recombinant IL-2, Human, GMP

CM004-100HPG

CM004-1000HPG





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Product Datasheet

Recombinant IL-2, Human, GMP

| Catalog# | CM004-100HPG | CM004-1000HPG |
|----------|--------------|---------------|
| Size | 100 ug | 1 mg |

Product Specifications

| 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. |
|----------------------|---|
| Synonyms | interleukin 2, T-cell Growth Factor (TCGF), Aldesleukin, IL2 |
| Uniprot ID | P60568 |
| Molecular Weight | The protein has a calculated MW of 16.4 kDa. The protein migrates as 13 kDa under reducing condition (SDS-PAGE analysis). |
| Expression System | Escherichia coli |
| Purity | >98% as determined by SDS-PAGE analysis. |
| Activity | Measure by its ability to induce proliferation in CTLL-2 cells. The ED $_{50}$ for this effect is <3 ng/mL. The specific activity of recombinant human IL-2 is >5 x 10 6 IU/mg, which is calibrated against the human IL-2 WHO International Standard (NIBSC code: 86/500). |
| Endotoxin Level | <0.05 EU per 1 µg of the protein by the LAL method. |
| Protein Sequence | MAPTSSSTKKTQLQLEHLLLDLQMILNGINNYKNPKLTRMLTFKFYMPKKATELKHLQCLEEELKPLEEVL NLAQSKNFHLRPRDLISNINVIVLELKGSETTFMCEYADETATIVEFLNRWITFCQSIISTLT with polyhistidine tag at the C-terminus. |
| Form | Lyophilized from a 0.2 μm filtered solution of PBS, pH 8.0. |
| Application | Cell Culture |

Product Note

Centrifuge at 3000 rpm for 5 mins before opening. It is recommended to reconstitute the lyophilized protein in sterile H₂O to a concentration not less than 0.5 mg/mL and incubate the stock solution at RT for at least 20 min

to ensure sufficient re-dissolved. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.

Storage/Shipping

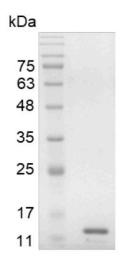
Stability & Storage

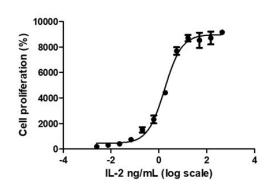
Lyophilized protein should be stored at -20°C for 1 year. Upon reconstitution, store at 2°C to 8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10%FBS, 5%HSA or 5% trehalose solution), protein aliquots should be stored at -20°C or -80°C for 3-6 months. Avoid repeated freeze/thaw cycles.

Shipping

Blue Ice

Scientific Data





SDS- PAGE analysis of GMP human IL-2

GMP Human IL-2 Protein, His Tag, E. coli induces CTLL-2 cell proliferation, with the ED $_{50}$ < 3.0 ng/mL.

For Research Use or Further Manufacturing Only

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