

CHAMOT

Recombinant IL-2, Human, GMP

CM004-100HPG

CM004-1000HPG



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CONTENT

1 Product Specifications

2 Product Note

3 Storage/Shipping

4 Scientific Data

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	MAPTSSSTKKTQLQLEHLLLDLQMILNGINNYKNPKLTRMLTFKFYMPKKATELKHLQCLEELKPLEEVL 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

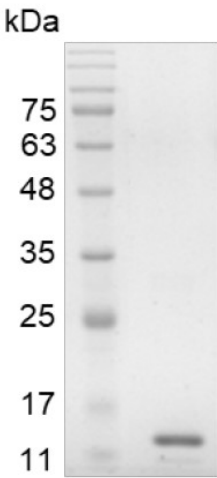
Centrifuge at 3000 rpm for 5 mins before opening. It is recommended to reconstitute the lyophilized protein in sterile H₂O to a concentration not less than 0.5 mg/mL and incubate the stock solution at RT for at least 20 min

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

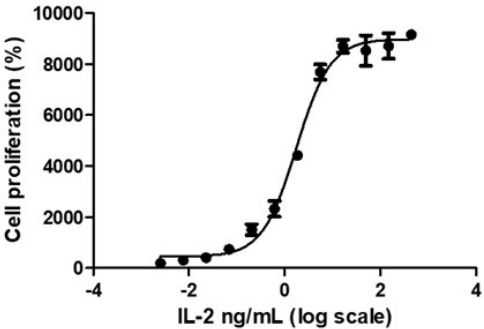
Storage/Shipping

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 ED₅₀ < 3.0 ng/mL.

For Research Use or Further Manufacturing Only

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