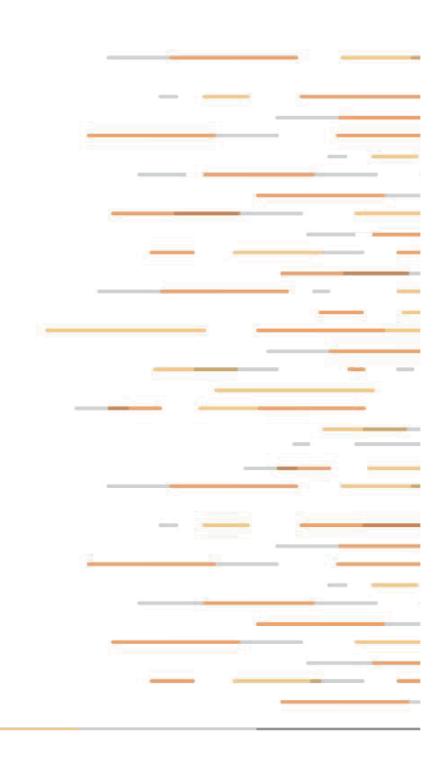
# **CHAMOT**

Recombinant IL-7, Human, GMP

CM009-100HPG

CM009-1000HPG





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# **Product Datasheet**

# Recombinant IL-7, Human, GMP

Catalog#	CM009-100HPG	CM009-1000HPG
Size	100 ug	1 mg

## **Product Specifications**

Background	Interleukin-7 (IL-7) is a multipotent cytokine belonged to one of the members of IL-2 superfamily. IL-7 has diverse effects on the hematopoietic and immune regulations. IL-7 is a trophic factor that is necessary for both B cell and T cell proliferation and development. In addition, it presents potential antitumor effects in tumors such as glioma, melanoma, lymphoma, leukemia, prostate cancer, and glioblastoma.
Synonyms	interleukin 7, Lymphopoietin 1(LP-1), pre-B-cell factor, IL7
Uniprot ID	P13232
Molecular Weight	The protein has a calculated MW of 18.3 kDa. The protein migrates as 19 kDa under reducing condition (SDS-PAGE analysis).
Expression System	Escherichia coli
Purity	>95% as determined by SDS-PAGE analysis.
Activity	Measured by its ability to induce PHA-activated human PBMCs proliferation. The ED $_{50}$ for this effect is <0.8 ng/mL. The specific activity of recombinant human IL-7 is > 1 x 10 $^{8}$ units/mg.
Activity Endotoxin Level	Measured by its ability to induce PHA-activated human PBMCs proliferation. The ED $_{50}$ for this effect is <0.8 ng/mL. The specific activity of recombinant human IL-7 is > 1 x 10 $^{8}$
Endotoxin	Measured by its ability to induce PHA-activated human PBMCs proliferation. The ED $_{50}$ for this effect is <0.8 ng/mL. The specific activity of recombinant human IL-7 is > 1 x 10 $^{8}$ units/mg.
Endotoxin Level Protein	Measured by its ability to induce PHA-activated human PBMCs proliferation. The ED <sub>50</sub> for this effect is <0.8 ng/mL. The specific activity of recombinant human IL-7 is > 1 x 10 <sup>8</sup> units/mg.  <0.05 EU per 1 μg of the protein by the LAL method.  MDCDIEGKDGKQYESVLMVSIDQLLDSMKEIGSNCLNNEFNFFKRHICDANKEGMFLFRAARKLRQFL KMNSTGDFDLHLLKVSEGTTILLNCTGQVKGRKPAALGEAQPTKSLEENKSLKEQKKLNDLCFLKRLLQEI

### **Product Note**

Centrifuge at 3000 rpm for 5 mins before opening. It is recommended to reconstitute the lyophilized protein in sterile H<sub>2</sub>O 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

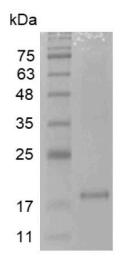
Stability & Storage

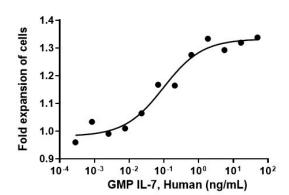
Lyophilized protein should be stored at -20°C for 1 year. Upon reconstitution, store at 2°C to 8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10%FBS, 5%HSA or 5% trehalose solution), protein aliquots should be stored at -20°C or -80°C for 3-6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

**Shipping** 

Blue Ice

#### **Scientific Data**





SDS- PAGE analysis of GMP human IL-7

GMP Human IL-7 Protein, His Tag, E. coli stimulates the proliferation of PHA-activated human peripheral blood lymphocytes (PBMC), with the ED $_{50}$  < 0.8 ng/mL.

For Research Use or Further Manufacturing Only

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