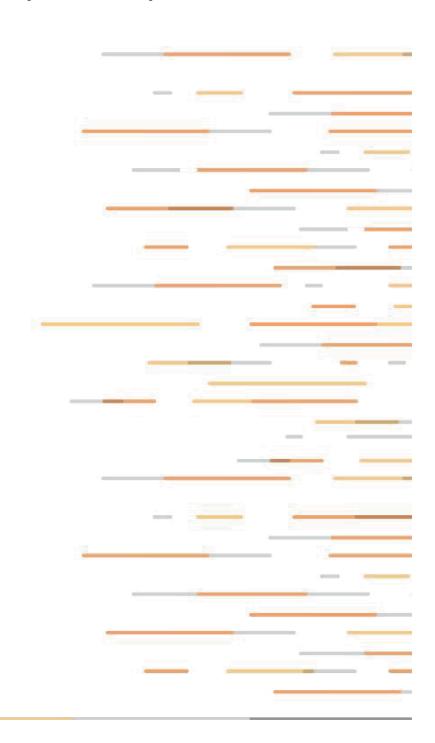
# CHAMOT

# Recombinant IL-10, Human, GMP

CM012-100HPG

CM012-1000HPG





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## **Product Datasheet**

# Recombinant IL-10, Human, GMP

Catalog#	CM012-100HPG	CM012-1000HPG
Size	100 ug	1 mg

### **Product Specifications**

Background	Interleukin-10 (IL-10), also known as human cytokine synthesis inhibitory factor (CSIF), is an anti-inflammatory cytokine. Many different types of cells can produce IL-10, including immune cells and non-immune cells. IL-10 exerts inhibitory functions on DCs and macrophages, which is a potent inhibitor of antigen presentation and limit the production of the Th1-associated cytokines IL-2 and interferon-γ (IFN-γ). IL-10 is also a key immunoregulator during infection due to its inhibitory effect on inflammatory cytokine production. Consequently, the excessive Th1 and CD8+ T cell responses could be suppressed during infection.
Synonyms	interleukin 10, B-TCGF, CSIF, TGIF, IL10
Uniprot ID	P22301
Molecular Weight	The protein has a calculated MW of 19.6 kDa. The protein migrates as 20 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 MC/9-2 cells proliferation. The ED $_{50}$ for this effect is <1 ng/mL. The specific activity of recombinant human IL-10 is approximately >1x10 $^6$ IU/ mg.
Endotoxin Level	<0.05 EU per 1 µg of the protein by the LAL method.
Protein Sequence	MSPGQGTQSENSCTHFPGNLPNMLRDLRDAFSRVKTFFQMKDQLDNLLLKESLLEDFKGY LGCQALSEMIQFYLEEVMPQAENQDPDIKAHVNSLGENLKTLRLRRCHRFLPCENKSKA VEQVKNAFNKLQEKGIYKAMSEFDIFINYIEAYMTMKIRN 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  $H_2O$  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

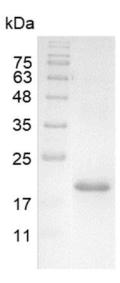
Stability & Storage

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-10

For Research Use or Further Manufacturing Only

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