

# CHAMOT

## Recombinant IL-4, Human, GMP

CM006-100HPG

CM006-1000HPG



CHAMOT

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*Specialize In Cytokines*



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## Recombinant IL-4, Human, GMP

Catalog#	CM006-100HPG	CM006-1000HPG
Size	100 ug	1 mg

### Product Specifications

**Background** Interleukin-4 (IL-4) is a key cytokine produced by activated T cells, mast cells, basophils, neutrophils and eosinophils. IL-4 is critical for the development of Th2-mediated responses, which is related to allergy and asthma. It can also regulate B cell responses, including survival, cell proliferation and gene expression. IL-4 also plays fundamental role for B-cell stimulation, including induction of the IgE isotype switch.

**Synonyms** interleukin 4, BCGF, BCDF, B-cell Stimulating Factor (BSF-1), IL4

**Uniprot ID** P05112

**Molecular Weight** The protein has a calculated MW of 15.9 kDa. The protein migrates as 12 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 TF-1 cells proliferation. The ED<sub>50</sub> for this effect is <0.2 ng/mL. The specific activity of recombinant human IL-4 is approximately >2.8 x 10<sup>7</sup> IU/mg.

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

**Protein Sequence** MHKCDITLQEIIKTLNSLTEQKTLCTELTVTDIFAASKNTTEKETFCRAATVLRQFYSHHEKDTR CLGATAQQFHRHKQLIRFLKRLDRNLWGLAGLNSCPVKEANQSTLENFLERLKTIMREKYSK CSS 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<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

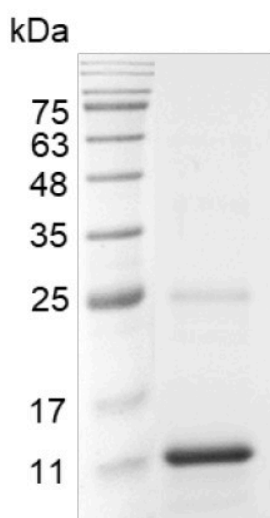
### Stability & Storage

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-4

For Research Use or Further Manufacturing Only

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