

CHAMOT

Recombinant IL-4, Human, GMP

CM006-100HPG

CM006-1000HPG



CHAMOT

乔默®生物

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 ED₅₀ for this effect is <0.2 ng/mL. The specific activity of recombinant human IL-4 is approximately >2.8 x 10⁷ 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 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

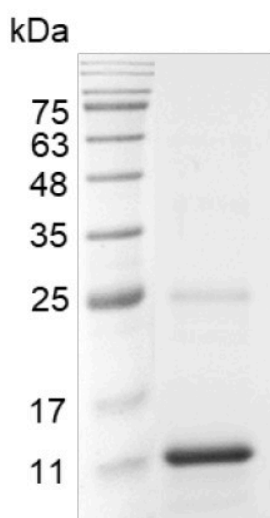
Stability & Storage

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-4

For Research Use or Further Manufacturing Only

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