

CHAMOT

Recombinant IL-10, Human, GMP

CM012-100HPG

CM012-1000HPG



CHAMOT

乔默®生物

Specialize In Cytokines



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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 ED₅₀ for this effect is <1 ng/mL. The specific activity of recombinant human IL-10 is approximately >1x10⁶ IU/ mg.

Endotoxin Level

<0.05 EU per 1 μ g of the protein by the LAL method.

Protein Sequence

MSPGQGTQSENSCTHFPGNLPNMLRDLRDAFSRVKTFQMKDQLDNLLLKESLLEDFKGY LGCQALSEMIQFYLEEVMPPQAENQDPDIKAHVNSLGENLKTLLRLRRCHRFLPCENKSKA VEQVKNAFNKLQEKGIYKAMSEFDIFINYIEAYMTMKIRN with polyhistidine tag at the C-terminus

Form

Lyophilized from a 0.2 μ m 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-10

For Research Use or Further Manufacturing Only

Chamot Biotechnology(Shanghai) Co., Ltd. www.chamot-bio.com

Tel: 021-51880030 Mail: info@chamot-bio.com QQ: 864920491