

Human recombinant IL-10 (Interleukin-10) protein, AF

Catalog Number: PROTP22301-5

Overview

Product Name	Human recombinant IL-10 (Interleukin-10) protein, AF
Description	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-gamma (IFN-gamma). 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.
Size	5ug,20ug,100ug
Tag	His Tag (C-term)
Form	Lyophilized
Source	Escherichia coli
Formulation	The protein was lyophilized from a 0.2 um filtered solution containing 1X PBS, pH 8.0. If you have any concerns or special requirements, please confirm with us.

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.

Purity

>98% as determined by SDS-PAGE.

Molecular weight

The protein has a calculated MW of 19.6 kDa. The protein migrates as 20 kDa under reducing condition (SDS-PAGE analysis).

Activity

Measure by its ability to induce MC/9 β 2 cells proliferation. The ED $_{50}$ for this effect is 1x10 2 IU/ mg.

Endotoxin

<0.01 EU per 1 ug of the protein by the LAL method.

Amino Acid Sequence

MSPGQGTQSENSCTHFPGNLPNMLRDLRDAFSRVKTFQMKDQLDNLLLKESLLEDFKGYLGCQALSEMIQFYLEEVMPPQAENQDPDIKAHVNSLGE
NLKTLRLRRLRCHRFLPCENKSKAVEQVKNAFNKLQEKGIYKAMSEFDIFINYIEAYMTMKIRN with polyhistidine tag at the C-terminus

Reconstitution

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 100 µg/mL and incubate the stock solution at room temperature for at least 20 mins to ensure sufficient re-dissolved. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.

Usage

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