

32-12164: Human Interleukin-10

Gene : IL10
Gene ID : 3586
Uniprot ID : P22301
Alternative Name : Cytokine synthesis inhibitory factor, B-TCGF, CSIF, TGIF

Description

Source: Genetically modified E.coli.

Predicted MW: Noncovalent Homodimer, 18.8 kDa (161 aa)

Interleukin 10 (IL-10) is an anti-inflammatory cytokine produced by macrophages and type 2 T helper (Th2) cells. IL-10 inhibits the production of pro-inflammatory cytokines such as interferon gamma (IFN-gamma), tumor necrosis factor alpha (TNF-alpha), interleukin 2 (IL-2), interleukin 3 (IL-3), interleukin 4 (IL-4), and granulocyte-macrophage colony-stimulating factor (GM-CSF), made by macrophages and regulatory T cells. IL-10 also suppresses antigen presentation on antigen presenting cells, and enhances the survival, proliferation, and antibody production of B cells. Human IL-10 can act on murine cells, while murine IL-10 is not active on human cells.

Product Info

Amount : 10 µg / 100 µg
Purification : Reducing and Non-Reducing SDS PAGE at $\geq 95\%$
Content : Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium phosphate, pH 7.5
Sterile water at 0.1 mg/mL
Storage condition : Store at -20°C
Amino Acid : MSPGQGTQSE NSCTHFPGNL PNMLRDLRDA FSRVKTFQK KDQLDNLKLLK ESLEDFKGY LGCQALSEMI QFYLEEVMPO AENQDPDIKA HVNSLGENLK TLRRLRRCH RFLPCENKSK AVEQVKNAFN KLQEKGIYKA MSEFDIFINY IEAYMTMKIR N

Application Note

Endotoxin: Less than $0.1 \text{ ng}/\mu\text{g}$ (1 IEU/ μg) as determined by LAL test.

Biological Activity was determined by MC/9 cell proliferation at $\leq 5 \text{ ng/mL}$; $\geq 2.0 \times 10^5 \text{ units/mg}$. Centrifuge vial before opening, Suspend the product by gently pipetting the above recommended solution down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution. For prolonged storage, dilute to working aliquots in a 0.1% BSA solution, store at -80°C and avoid repeat freeze thaws. Upon reconstitution, a small amount of visible precipitate can be expected. A 10% overfill has been added to the total material vial to compensate for this loss.



