

32-12143: Human Interleukin-4

Gene : IL4
Gene ID : 3565
Uniprot ID : P05112

Alternative Name : B-cell stimulatory factor 1, Binetrakin, Lymphocyte stimulatory factor 1, Pitrakinra

Description

Source: Genetically modified E.coli.

Predicted MW: Monomer, 15.1 kDa (130 aa)

Interleukin 4 (IL-4) is an immunomodulatory cytokine that functions to induce naïve helper T cells to differentiate into type 2 T helper (Th2) cells. Th2 cells subsequently produce more IL-4 in a positive feedback loop. IL-4 also promotes immunoglobulin IgG to IgE isotype switching on B cells. IL-4 binds the IL-4Ralpha receptor to activate STAT6 signaling.

Product Info

Amount : 20 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 0.1% Trifluoroacetic Acid (TFA)
Sterile water at 0.1 mg/mL
Storage condition : Store at -20°C
Amino Acid : MHKCDITLQE IIKTLNSLTE QKTLCTELTV TDIFAASKNT TEKETFCRAA TVLRQFYSHH EKDTRCLGAT
AQQFHRHKQL IRFLKRLDRN LWGLAGLNSC PVKEANQSTL ENFLERLKTI MREKYSKCSS

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 TF-1 cell proliferation at $\leq 250 \text{ pg/mL}$; $\geq 4.0 \times 10^6 \text{ units/mg}$. 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.



