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## 32-12144: Human Interleukin-4 (AF)

**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:Â Monomer, 15.1 kDa (130 aa)

Interleukin 4 (IL-4) is an immunomodulatory cytokine that functions to induce naà ve 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 >= 95%

Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 0.1% Trifluoroacetic

**Content:** Acid (TFA)

Sterile water at 0.1 mg/mL

**Storage condition :** Store at -20°C

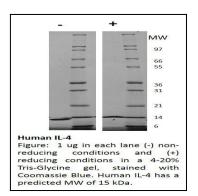
Amino Acid: MHKCDITLQE IIKTLNSLTE QKTLCTELTV TDIFAASKNT TEKETFCRAA TVLRQFYSHH EKDTRCLGAT

AQQFHRHKQL IRFLKRLDRN LWGLAGLNSC PVKEANQSTL ENFLERLKTI MREKYSKCSS

## **Application Note**

**Endotoxin:** Less than 0.1 ng/ $\tilde{A} \cap \hat{A} \mu g$  (1 IEU/ $\tilde{A} \cap \hat{A} \mu g$ ) as determined by LAL test.

Biological Activity was determined by TF-1 cell proliferationat <=250 pg/mL; >=  $4.0 \times 10^6$  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  $-80\text{\AA}$  $\square$ Å°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 vialed to compensate for this loss.  $\text{\AA}$  $\square$ Å





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