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32-20337: Animal-Free Recombinant Human IL-4(Discontinued)

Reactivity : Human, Mouse
Alternative Name : BCGF, BCDF, B cell stimulating factor (BSF-1)

Description

Source:E.coliIL-4 is a pleiotropic cytokine that regulates diverse T and B cell responses including cell proliferation, survival and gene expression. Produced by mast cells, T cells and bone marrow stromal cells, IL-4 regulates the differentiation of naive CD4+ T cells into helper Th2 cells, characterized by their cytokine-secretion profile that includes secretion of IL-4, IL-5, IL-6, IL-10, and IL-13, which favor a humoral immune response. Another dominant function of IL-4 is the regulation of immunoglobulin class switching to the IgG1 and IgE isotypes. Excessive IL-4 production by Th2 cells has been associated with elevated IgE production and allergy. Recombinant Human IL-4 is a 15.1 kDa globular protein containing 130 amino acid residues.

Product Info

Amount : 5 µg / 20 µg
Purification : Purity: >= 98% by SDS-PAGE gel and HPLC analyses.
Content : This recombinant protein is supplied in lyophilized form.
Amino Acid : MHKCDITLQE IIKTLNSLTE QKTLCTELTV TDIFAASKNT TEKETFCRAA TVLRQFYSHH EKDTRCLGAT AQQFHRHKQL IRFLKRLDRN LWGLAGLNSC PVKEANQSTL ENFLERLKTI MREKYSKCSS

Application Note

TheÃ□Â ED_{50}Ã□Â was determined by the dose-dependent stimulation of the proliferation of human TF-1 cells is <= 0.2 ng/ml, corresponding to a specific activity of >= 5 x 10^6Ã□Â units/mg.

For Research Use Only. Not for use in diagnostic/therapeutics procedures.