

32-20336: Recombinant Human IL-4(Discontinued)

Alternative Name : BCGF, Bcdf, B cell stimulating factor (BSF-1)

Description

Source: *E.coli*

IL-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: \geq 98% by SDS-PAGE gel and HPLC analyses. |
| Content : | This recombinant protein is supplied in lyophilized form. |
| Storage condition : | Lyophilized: -20oC to -80oC Reconstituted: 2oC to 8oC for one week |
| Amino Acid : | MHKCDITLQE IIKTLNSLTE QKTLCTELTV TDIFAASKNT TEKETFCRAA TVLRQFYSHH EKDTRCLGAT AQQFHRHKQL IRFLKRLDRN LWGLAGLNSC PVKEANQSTL ENFLERLKI MREKYSKCSS |

Application Note

The ED₅₀ as determined by the dose-dependent stimulation of human TF-1 cells is \leq 0.2 ng/ml, corresponding to a specific activity of \geq 5 x 10⁶ units/mg.