



Recombinant Human IL-4

Product Details

Catalogue Number: PEP-200-04

Description:

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.

Source: *E.coli*

Synonyms: BCGF, BCDF, B cell stimulating factor (BSF-1)

AA Sequence: MHKCDITLQE IIKTLNSLTE QKTLCTELTV TDIFAASKNT TEKETFCAA TVLRQFYSHH
EKDTRCLGAT AQQFHRHKQL IRFLKRLDRN LWGLAGLNSC PVKEANQSTL ENFLERLKTI
MREKYSKCSS

Purity: ≥ 98% by SDS-PAGE gel and HPLC analyses.

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

Calculated Molecular Weight: 15.1 kDa

Li StarFish distribuisce:





Accession Number:P05112

Gene ID:3565

Crossreactivity:

Bacteria, Chicken, Human , Human + Mouse, Leech, Mouse, N/A, Rabbit, Rat

Country Of Origin: USA

Not for human use.

Li StarFish distribuisce:

