

Recombinant Human Interleukin 4, His-tagged

Cat. No. IL4-137H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Interleukin-4 protein, fused to His-tag at N-terminus, was expressed in <i>E.coli</i> and was purified by conventional chromatography techniques, after refolding of the isolated inclusion bodies in a renaturation buffer. MW = 17.2kDa (150aa).
Species	Human
Source	E.coli
Description	Interleukin-4 (IL-4) is a pleiotropic cytokine that has many biological roles, including the stimulation of activated B-cell and T-cell proliferation, and the differentiation of naïve helper T-cell to Th2 cells. Interleukin-4 is a co-stimulator of DNA-synthesis and induces the expression of class II MHC molecules on resting B-cells. It also enhances both secretion and cell surface expression of IgE and IgG1.
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MHKCDITLQE IIKTLNSLTE QKTLCTELTV TDIFAASKNT TEKETFCAA TVLRQFYSHH EKDTRCLGAT AQQFHRHKQL IRFLKRLDRN LWGLAGLNSC PVKEANQSTL ENFLERLKI MREKYSKCSS
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol.
Purity	> 95% by SDS – PAGE.
Concentration	1 mg/ml (determined by Bradford assay).
Endotoxin Level	< 1.0 EU per 1ug of protein (determined by LAL method).

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Storage Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name IL4 interleukin 4 [Homo sapiens]

Synonyms IL4; interleukin 4; BSF1; IL-4; BCGF1; BCGF-1; MGC79402; B-cell stimulatory factor 1; Interleukin-4; Lymphocyte stimulatory factor 1; Binetrakin; Pitrakinra; B-cell stimulatory factor 1; B_cell stimulatory factor 1

Gene ID 3565

mRNA Refseq NM_000589

Protein Refseq NP_000580

MIM 147780

UniProt ID P05112

Chromosome Location 5q31.1

Pathway Allograft rejection; Asthma; Autoimmune thyroid disease; Cytokine-cytokine receptor interaction; Fc epsilon RI signaling pathway; Hematopoietic cell lineage; Jak-STAT signaling pathway; cell receptor signaling pathway

Function cytokine activity; growth factor activity; interleukin-4 receptor binding; protein binding

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**Crystal structure of
human IL-4 (2INT).**



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