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*E.coli*and was purified by conventional chromatography techniques, after refolding of theisolated 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 is 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 TEKETFCRAA TVLRQFYSHH EKDTRCLGAT AQQFHRHKQL IRFLKRLDRN LWGLAGLNSC PVKEANQSTL ENFLERLKTI 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).

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

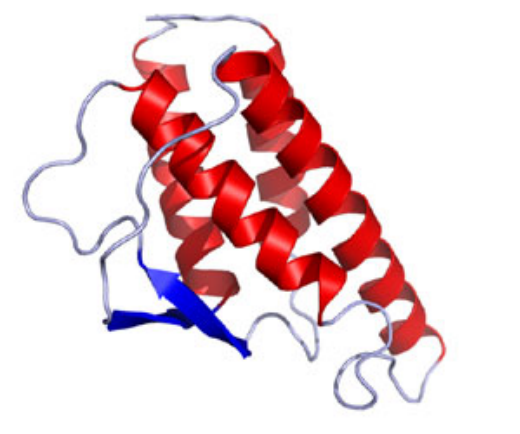
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

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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