

Active Recombinant Bovine Interleukin 4

Cat. No. IL4-240B **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Bovine IL-4 was expressed in Yeast. MW= 12.6 kDa (112 aa).
Species	Bovine
Source	Yeast
Description	Interleukin-4, abbreviated IL-4, is a cytokine that induces differentiation of naive helper T cells (Th0 cells) to Th2 cells. Upon activation by IL-4, Th2 cells subsequently produce additional IL-4. The cell that initially produces IL-4, thus inducing Th0 differentiation, has not been identified, but recent studies suggest that basophils may be the effector cell. Its receptor is the Interleukin-4 receptor.
Formulation/ Reconstitution	Lyophilized. Reconstitute with sterile phosphate-buffered saline containing at least 0.1% carrier protein.
Purification	Ion-exchange chromatography.
Purity	>95% as visualized by SDS-PAGE analysis.
Amino Acid Sequence	GHKCDITLAE IIKTLNLTTRKNSCMELPV ADVFAAPKNT TEKETFRCRVG IELRRIYRSH TCLNKFLGGL DRNLNSLASK TCSVNEAKTS TSTLKDLLER LKTIMKEKYS KC.
Bioactivity	The biological activity of recombinant bovine IL-4 was measured in a cell proliferation assay using the human TF-1 cell line. The ED50 for this effect is typically 1.5 - 2

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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ng/mL.

Stability And Storage

Stable for up to twelve months from date of receipt at -20°C. Stable for at least 3 months when stored in working aliquots with a carrier protein at -20°C. Avoid repeated freeze/thaw cycles.

GENE INFORMATION

Gene Name

IL4 interleukin 4 [Bos taurus]

Synonyms

interleukin 4; IL4; IL-4; interleukin-4; BSF-1; B-cell stimulatory factor 1; lymphocyte stimulatory factor 1

Gene ID

280824

mRNA Refseq

NM_173921.2

Protein Refseq

NP_776346.1

UniProt ID

P30367

Chromosome Location

7q15-q21

Pathway

Allograft rejection; Asthma; Autoimmune thyroid disease; Cytokine-cytokine receptor interaction; Fc epsilon RI signaling pathway; Hematopoietic cell lineage; Intestinal immune network for IgA production; Jak-STAT signaling pathway; T cell receptor signaling pathway

Function

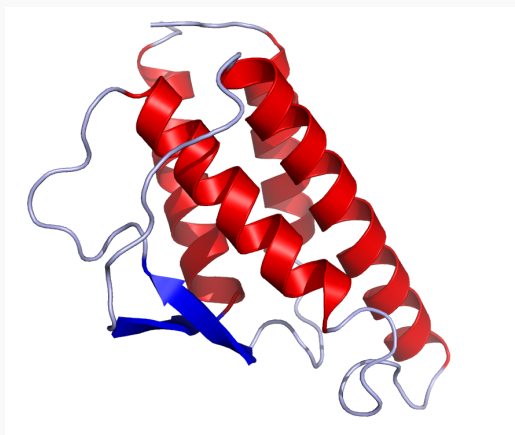
cytokine activity; growth factor activity; interleukin-4 receptor binding; protein binding

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



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