

Active Recombinant Human IL4

Cat. No. IL4-2755H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human IL-4 produced in Yeast is a single, glycosylated, polypeptide chain containing 129 amino acids, three pairs of disulfide bonds and having a molecular mass of approximately 15.0kDa (after glycosylation, the molecular mass is 30.0kDa.)
Species	Human
Source	Yeast
Description	Interleukin 4 is a pleiotropic cytokine produced by activated T cells, mast cells, and basophils. It was initially identified as a B cell differentiation factor (BCDF), as well as a B cell stimulatory factor (BSF1). Subsequent to the molecular cloning and expression of both human and Mouse IL-4, numerous other functions have been described on B cells as well as other hematopoietic and nonhematopoietic cells, including T lymphocytes, monocytes, macrophages, mast cells, myeloid and erythroid progenitors, fibroblasts, endothelial cells, etc. IL-4 exhibits anti-tumor effects both in vivo and in vitro.
Form	Lyophilized from a 0.2µm filtered solution in 20mM Phosphate Buffer
Bio-activity	Measured in a cell proliferation assay using a human factor-dependent cell line, TF-1. The specific activity shall be not less than 1×10^7 IU/mg.
Endotoxin	≤ 1 EU/µg, determined by the LAL method.

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Purity	≥97%, as determined by SDS-PAGE and HPLC method.
Usage	FOR RESEARCH ONLY
Storage	Lyophilized samples are stable for greater than six months from date of receipt at -20 centigrade to -70 centigrade. The reconstituted samples can be stored under sterile conditions at 2- 8 centigrade for one month or at -20 centigrade to -70 centigrade for three months without detectable loss of activity. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile ddH ₂ O containing at least 0.1% human serum albumin or bovine serum albumin be added to the vial to prepare a stock solution of not less than 5µg/ml of the cytokine.

GENE INFORMATION

Gene Name	IL4 interleukin 4 [Homo sapiens]
Official Symbol	IL4
Synonyms	BSF1; IL-4; BCGF1; BSF-1; BCGF-1; interleukin-4; B cell growth factor 1; B_cell stimulatory factor 1; binetrakin; interleukin 4 variant 2; lymphocyte stimulatory factor 1; pitrakinra
Gene ID	3565
mRNA Refseq	NM_000589
Protein Refseq	NP_000580
MIM	147780

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UniProt ID	P05112
Chromosome Location	5q31.1
Pathway	Allograft Rejection, organism-specific biosystem; Allograft rejection, organism-specific biosystem; Autoimmune thyroid disease, conserved biosystem
Function	cytokine activity

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