

Active Recombinant Human IL4, Fc-tagged

Cat. No. IL4-313H Lot. No. (See product label)

SPECIFICATION

Product Overview	The extracellular domain of human IL-4 (aa 1-153) is fused to the N-terminus of the Fc region of a mutant human IgG1.
Species	Human
Source	CHO
ProteinLength	1-153 a.a.
Description	Interleukin-4 (IL-4) is a cytokine produced by type 2 helper T cells, the Th2 cells. These cells tends to make a specific set of lymphokines including IL-4, IL-5, IL-6, IL-10, IL-13, IL-3 and GM-CSF and fail to produce IL-2, IFN- γ , and lymphotoxin (TNF-beta). In addition, mast cells can produce IL-4. IL-4 exerts numerous effects on various hematopoietic cell types. On B cells, IL-4 promotes immunoglobulin class switching to IgE and IgG1 isotypes and upregulates MHC class II and CD23 expression. IL-4 promotes survival, growth, and differentiation of both T and B lymphocytes, mast cells and endothelial cells. In addition, IL-4 inhibits the production of TNF, IL-1, and IL-6 by macrophages.
Form	Lyophilized from 0.2 μ m-filtered solution in PBS.
Bio-activity	Shows the biological function of the IL-4 moiety and exerts a prolonged circulating half-life caused by the modified Fc domain.
Purity	$\geq 98\%$ (SDS-PAGE)

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Stability	Stable for at least 1 year after receipt when stored at -20°C. Working aliquots are stable for up to 3 months when stored at -20°C.
Storage	Short Term Storage: +4°C; Long Term Storage: -20°C. Avoid freeze/thaw cycles.
GENE INFORMATION	
Gene Name	IL4 interleukin 4 [Homo sapiens]
Official Symbol	IL4
Synonyms	IL4; interleukin 4; interleukin-4; B cell growth factor 1; B_cell stimulatory factor 1; BCGF 1; BCGF1; BSF1; IL 4; lymphocyte stimulatory factor 1; MGC79402; binetrakin; pitrakinra; IL-4; BSF-1; BCGF-1;
Gene ID	3565
mRNA Refseq	NM_000589
Protein Refseq	NP_000580
MIM	147780
UniProt ID	P05112
Chromosome Location	5q23-q31
Pathway	Allograft rejection, organism-specific biosystem; Allograft rejection, conserved biosystem; Asthma, organism-specific biosystem; Asthma, conserved biosystem; Autoimmune thyroid disease, organism-specific biosystem; Autoimmune thyroid

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disease, conserved biosystem; CD40/CD40L signaling, organism-specific biosystem;

Function

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

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