

Active Recombinant Mouse Il4, Fc-tagged

Cat. No. Il4-316M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The extracellular domain of mouse IL-4 (aa 21-140) is fused to the N-terminus of the Fc region of a mutant mouse IgG2a.
Species	Mouse
Source	CHO
ProteinLength	21-140 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 [*Mus musculus*]

Official Symbol IL4

Synonyms IL4; interleukin 4; interleukin-4; IGG1 induction factor; B-cell growth factor 1; B-cell stimulatory factor 1; lymphocyte stimulatory factor 1; B-cell IgG differentiation factor; IL-4; BSF-1;

Gene ID 16189

mRNA Refseq NM_021283

Protein Refseq NP_067258

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 disease, conserved biosystem; Cytokine-cytokine receptor interaction, organism-specific biosystem;

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

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