

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)

 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

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 [<i>Mus musculus</i>]
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;