



Recombinant Mouse IL-4

20150227BB



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	M10-016S
Size:	5 µg
Lot. No.:	According to product label

Scientific Background

Gene-ID (NCBI):	16189
Synonyms:	Il4; IL-4; BSF-1

Interleukin 4 (IL-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). IL-4 has since been shown to have multiple biological effects on hematopoietic and non-hematopoietic cells, including B and T cells, monocytes, macrophages, mast cells, myeloid and erythroid progenitors, fibroblasts, and endothelial cells. Rat, mouse and human IL-4 are species-specific in their activities.

Sequence

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MHIHGCDKNH LREIIGILNE VTGEGTPCTE MDVPNVLTAT  
KNTTESELVC RASKVLRIFY LKHGKTPCLK KNSSVLMELQ  
RLFRFRCLD SSISCTMNES KSTSLKDFLE SLKSIMQMDY S
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Database References

Protein RefSeq:	NP_067258
Uniprot ID:	P07750
mRNA RefSeq:	NM_021283

Product Specifications

Expressed in	E. coli
Purity	> 98% by SDS-PAGE & HPLC analyses
Endotoxin level	< 0.1 ng /µg of protein (<1EU/µg).
Formulation	lyophilized
Length (aa):	120
MW:	13.5 kDa

Biological Activity: The ED50 was determined by the dose-dependent proliferation of murine HT-2 cells is < 2.0 ng/ml, corresponding to a specific activity of > 5 x 10⁵ units/mg.



AVOID REPEATED FREEZE AND THAW CYCLES!