

Product Data Sheet

IL-4 Protein, Mouse (HEK293)

Cat. No.:	HY-P701093
Synonyms:	rMuIL-4; BSF-1; Binetrakin; Lymphocyte stimulatory factor 1; Pitrakinra
Species:	Mouse
Source:	HEK293
Accession:	P07750 (H21-S140)
Gene ID:	16189
Molecular Weight:	Approximately 17-20 kDa due to the glycosylation.

ROPERTIES
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Storage & Stability
Shipping

DESCRIPTION

Background

Mouse Interleukin 4 is a 20-kDa glycoprotein, synthesized by activated T lymphocytes and mast cells, which regulates the growth and/or differentiation of a broad spectrum of target cells of the immune system, including B and T lymphocytes, macrophages, and hematopoietic progenitor cells. Murine Interleukin 4 (IL-4) is a potent mediator of an immune response, affecting both the growth and differentiation of a wide variety of cells in the hematopoietic lineage. This cytokine is expressed by activated T lymphocytes and mast cells as a 20-kDa glycoprotein. The cDNA for IL-4 isinitially is solated by two laboratories, using expression vectors and screening for either a IgG-inducing factor or a mast cell growth factor. The derived amino acid sequence from the cDNA clones is used to predict a protein backbone for IL-4 of 14 kDa. This is

consistent with the observation that N-glycanase treatment of natural IL-4, to remove N-linked carbohydrates, yields a protein core of 14 kDa. Initial experiments with deglycosylated native IL-4 and with deglycosylated recombinant IL-4, expressed initially in yeast as a heterogeneous, hyperglycosylated molecule, suggested that the carbohydrate modifications of IL-4 do not affect its ability to bind to receptor and to stimulate T and B cell growth^[1].

Caution: Product has not been fully validated for medical applications. For research use only.

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