

Active Recombinant Mouse Il4 Protein

Cat. No. II4-109M Lot. No. (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of Mouse interleukin 4 (Il4), transcript variant 1 without tag was expressed in E.coli.
Species	Mouse
Source	E.coli
Description	Participates in at least several B-cell activation processes as well as of other cell types. It is a costimulator of DNA-synthesis. It induces the expression of class II MHC molecules on resting B-cells. It enhances both secretion and cell surface expression of IgE and IgG1. It also regulates the expression of the low affinity Fc receptor for IgE (CD23) on both lymphocytes and monocytes. Positively regulates IL31RA expression in macrophages. Stimulates autophagy in dendritic cells by interfering with mTORC1 signaling and through the induction of RUFY4.
Bio-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 10 ⁵ units/mg.
Molecular Mass	13.5 kDa
AA Sequence	MHIHGCDKNHLREIIGILNEVTGEGTPCTEMDVPNVLTKNTTESELVCRASKVLRIF YLKHGKTPCLKKNSSVLMELQRLFRAFRCCLDSSISCTMNESKSTSLKDFLESLSKSIMQ MDYS
Endotoxin	Endotoxin level is < 0.1 ng/g of protein (< 1 EU/g)

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Purity	>95%, as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for at least 6 months from date of receipt under proper storage and handling conditions.
Storage	Store at -80 centigrade.
Storage Buffer	Lyophilized from a 0.2 M filtered solution of 20mM phosphate buffer, 100mM NaCl, pH 7.2
Reconstitution	Resuspend the protein in the desired concentration in proper buffer.
GENE INFORMATION	
Gene Name	IL4 interleukin 4 [<i>Mus musculus</i> (house mouse)]
Official Symbol	IL4
Synonyms	IL4; interleukin 4; IL-4; BSF-1; interleukin-4; B-cell IgG differentiation factor; B-cell growth factor 1; B-cell stimulatory factor 1; IGG1 induction factor; lymphocyte stimulatory factor 1
Gene ID	16189
mRNA Refseq	NM_021283
Protein Refseq	NP_067258
UniProt ID	P07750

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