

Active Recombinant Mouse Il4 Protein

Cat. No. Il4-110M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of Mouse interleukin 4 (Il4), transcript variant 1 (His23-Ser140) without tag was expressed in HEK293.
Species	Mouse
Source	HEK293
ProteinLength	23-140 a.a.
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 is 2 - 4 ng/ml, corresponding to a specific activity of $2.5 - 5 \times 10^5$ units/mg, determined by CTLL-2 cell proliferation induced by mouse IL-4 in a dose dependent manner.
Molecular Mass	13.3 kDa
Endotoxin	Less than 0.01 ng per μ g protein as determined by the LAL method

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Purity	>95%, as determined by SDS-PAGE and Coomassie blue staining
Stability	Unopened vial can be stored between 2 centigrade and 8 centigrade for up to 2 weeks, at -20 centigrade for up to 6 months, or at -70 centigrade or below until the expiration date. Aliquots can be stored between 2 centigrade and 8 centigrade for up to one week and stored at -20 centigrade or colder for up to 3 months. Avoid repeated freeze/thaw cycles.
Storage	Store at -80 centigrade.
Concentration	Protein formulated and vialled at >50 ug/mL in specified buffer
Storage Buffer	1 x PBS

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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