

Active Recombinant Mouse IL4 Protein

Cat. No. IL4-5181M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Mouse IL4 (P07750, 21 a.a. - 140 a.a.) partial recombinant protein expressed in Escherichia coli.
Species	Mouse
Source	E.coli
ProteinLength	21-140 a.a.
Description	The interleukin 4 (IL4, IL-4) is a cytokine that induces differentiation of naive helper T cells (Th0 cells) to Th2 cells. Upon activation by IL-4, Th2 cells subsequently produce additional IL-4 in a positive feedback loop. The cell that initially produces IL-4, thus inducing Th0 differentiation, has not been identified, but recent studies suggest that basophils may be the effector cell. It is closely related and has functions similar to Interleukin 13.
Form	Lyophilized
Bio-activity	The ED50 was determined by the dose-dependent stimulation of the proliferation of human TF-1 cells is 2 x 10 ⁶ units/mg.
Molecular Mass	14 kDa
AA Sequence	HHGCDKNHLREIIGILNEVTGEGTPCTEMDVPNVLTATKNTTESELVCRASKVLRIFY LKHGKTPCLKKNSSVLMELQRLFRAFRCCLDSSISCTMNESKSTSLKDFLESLSIMQ

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	MDYS
Endotoxin	Endotoxin content was assayed using a LAL gel clot method. Endotoxin level was found to be less than 0.1 ng/μg (1EU/μg).
Purity	> 90% by SDS-PAGE and HPLC
Applications	Functional Study SDS-PAGE
Storage	Store at -20 centigrade on dry atmosphere for 2 years. After reconstitution with deionized water, store at 4 centigrade for 1 month or store at -20 centigrade for 6 months. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	Lyophilized from PBS, pH 7.0

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

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