

Active Recombinant Mouse Il4 Protein, His-Tagged

Cat. No. Il4-01M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse Il4 Protein, His-tagged was expressed in E. coli cell
Species	Mouse
Source	E.coli
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 Th2 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 powder
AA Sequence	MHIHGCDKNHLREIIGILNEVTGEGTPCTEMDVPNVLTATKNTTESELVCRASKVLRIF YLKHGKTPCLKKNSSVLMELQRLFRAFRCCLDSSISC TMNESKSTSLKDFLESLSIMQMDYS with polyhistidine tag at the C-terminus
Endotoxin	<0.1 EU per 1 µg of the protein by the LAL method.
Bio-activity	Measure by its ability to induce HT-2 cells proliferation. The ED50 for this effect is <1 ng/mL. The specific activity of recombinant mouse IL-4 is approximately >1 x 10 ⁶ IU/mg.

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Purity	≥98% as determined by SDS-PAGE and HPLC. Purified by Ni-NTA chromatography.
Storage Buffer	The protein was lyophilized from a solution containing 1X PBS, pH 7.4.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile H ₂ O to a concentration not less than 100 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.
Storage	Lyophilized protein should be stored at -20°C. Upon reconstitution, protein aliquots should be stored at -20°C or -80°C.
Notes	Please use within one month after protein reconstitution.

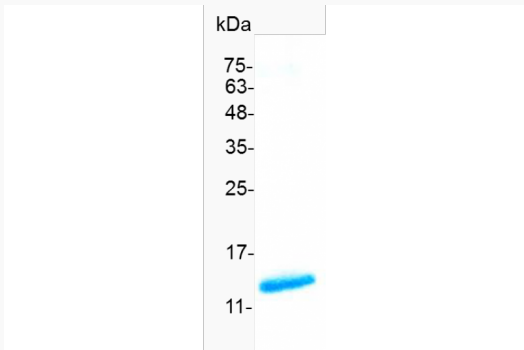
GENE INFORMATION

Gene Name	Il4 interleukin 4 [<i>Mus musculus</i> (house mouse)]
Official Symbol	Il4
Synonyms	Il-4; BSF-1
Gene ID	16189
mRNA Refseq	NM_021283.2
Protein Refseq	NP_067258.1
UniProt ID	P07750

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