IL4 Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	IL4, Recombinant Protein
Full Product Name	Recombinant Mouse IL4 Protein
Product Gene Name	IL4 recombinant protein
Product Synonym Names	Interleukin-4; IL-4; B-cell stimulatory factor 1; BSF-1; Binetrakin; Lymphocyte stimulatory factor 1; Pitrakinra
Sequence	MHGCDKNHLR EIIGILNEVT GEGTPCTEMD VPNVLTATKN TTESELVCRA SKVLRIFYLK HGKTPCLKKN SSVLMELQRL FRAFRCLDSS ISCTMNESKS TSLKDFLESL KSIMQMDYS
Host	E Coli
Species Reactivity	Mouse
Form/Format	Lyophilized from a 0.2 uM filtered solution of PBS, pH 7.4.
Purity/Purification	Greater than 95% as determined by reducing SDS-PAGE.
Preparation and Storage	Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 2-8°C for 2-7 days. Aliquots of reconstituted samples are stable at -20°C for 3 months.
3D Structure	ModBase 3D Structure for P07750
Endotoxin	Less than 0.1 ng/ug (1 IEU/ug) as determined by LAL test.
Directions for Use	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 ug/ml. Dissolve the lyophilized protein in 1X PBS. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Applications Tested/Suitable for IL4 recombinant protein	ELISA (EIA),Western Blot (WB), SDS-PAGE, Mass Spectrometry (MS)
Related Product Information for IL4 recombinant protein	Recombinant Mouse IL4 Protein is produced by our E Coli expression system and the target gene encoding His23-Ser140 is expressed.
Other Notes	Small volumes of IL4 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for IL4 purchase	MBS8249300 is a recombinant protein targeting IL4. Also known as Recombinant Mouse IL4 Protein. Reactive in Mouse. Host: E Coli.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for IL4. It may not necessarily be applicable to this product.

NCBI GI #	10946584
NCBI GeneID	16189
NCBI Accession #	NP_067258.1
UniProt Primary Accession #	P07750
UniProt Related Accession #	P07750
GenBank Nucleotide #	NM_021283.2
NCBI Official Full Name	interleukin-4

NCBI Official Synonym Full Names	interleukin 4
NCBI Official Symbol	Il4
NCBI Official Synonym Symbols	Il-4; BSF-1
UniProt Protein Name	Interleukin-4
UniProt Synonym Protein Names	B-cell IgG differentiation factor; B-cell growth factor 1; B-cell stimulatory factor 1; BSF-1; IGG1 induction factor; Lymphocyte stimulatory factor 1
Protein Family	Interleukin
UniProt Gene Name	Il4
UniProt Synonym Gene Names	Il-4; IL-4; BSF-1
UniProt Entry Name	IL4_MOUSE
NCBI Protein Information	interleukin-4
UniProt Comments for IL4	IL4: 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. Genetic variations in IL4 may be a cause of susceptibility to ischemic stroke (ISCHSTR); also known as cerebrovascular accident or cerebral infarction. A stroke is an acute neurologic event leading to death of neural tissue of the brain and resulting in loss of motor, sensory and/or cognitive function. Ischemic strokes, resulting from vascular occlusion, is considered to be a highly complex disease consisting of a group of heterogeneous disorders with multiple genetic and environmental risk factors. Belongs to the IL-4/IL-13 family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Cell cycle regulation; Cytokine; Motility/polarity/chemotaxis; Secreted; Secreted, signal peptide Cellular Component: external side of plasma membrane; extracellular space Molecular Function: cytokine activity Biological Process: B cell activation; B cell costimulation; cholesterol metabolic process; defense response to protozoan; innate immune response in mucosa; microglial cell activation; myeloid dendritic cell differentiation; negative regulation of acute inflammatory response; negative regulation of chronic inflammatory response; negative regulation of macrophage activation; negative regulation of nitric oxide biosynthetic process; negative regulation of osteoclast differentiation; negative regulation of T cell activation; negative regulation of transcription, DNA-dependent; positive regulation of activated T cell proliferation; positive regulation of B cell activation; positive regulation of B cell proliferation; positive regulation of cell proliferation; positive regulation of chemokine biosynthetic process; positive regulation of defense response to virus by host; positive regulation of immunoglobulin production; positive regulation of interleukin-10 production; positive regulation of interleukin-13 production; positive regulation of isotype switching to IgE isotypes; positive regulation of isotype switching to IgG isotypes; positive regulation of mast cell degranulation; positive regulation of MHC class II biosynthetic process; positive regulation of peptidyl-tyrosine phosphorylation; positive regulation of protein amino acid phosphorylation; positive regulation of T cell differentiation; positive regulation of T cell proliferation; positive regulation of transcription factor activity; positive regulation of transcription from RNA polymerase II promoter; positive regulation of transcription, DNA-dependent; positive regulation of tyrosine phosphorylation of Stat5 protein; regulation of immune response; regulation of inflammatory response; regulation of proton transport; T-helper 1 cell lineage commitment; T-helper 2 cell differentiation
Research Articles on IL4	**1.** indicate that Siglec-9 affects several different signaling pathways in IL-4-stimulated macrophages, which resulted in enhanced induction of Arg1 in Siglec-9-expressing RAW264 cells
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