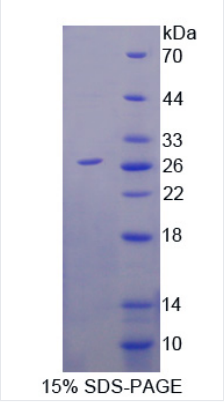
Interleukin 4 (IL4R) Recombinant Protein

PRODUCT OVERVIEW

Product Name	Interleukin 4 (IL4R), Recombinant Protein
Full Product Name	Recombinant Interleukin 4 Receptor (IL4R)
Product Gene Name	IL4R recombinant protein
Sequence	The target protein is fused with two N-terminal Tags, His-tag and T7-tag, its sequence is listed below. MGSSHHHHH H SSGLVPRGSH MASMTGGQQM GRGSEF- IKVLG EPTCFSDYIR TSTCEWFLDS AVDCSSQLCL HYRLMFFEFS ENLTCIPRNS ASTVCVCHME MNRPVQSDRY QMELWAEHRQ LWQGSFSPSG NVKPLAPDNL TLHTNVSDEW LLTWNNLYPS NNLLYKDLIS MVNISREDNP AEFIVYNVTY KEPRLSFPIN ILMSGVYYTA RVRVRSQILT GTWSEWSPSI TWYNHFQLPL IQR
Host	Host: E Coli Source: Prokaryotic expression
Form/Format	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
Purity/Purification	>95%
Concentration	6.4 (lot specific)
Preparation and Storage	Storage: Avoid repeated freeze/thaw cycles. Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months. Stability Test: The thermal stability is described by the loss rate of the targetprotein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation andprecipitation were observed. The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
Matching Pairs	Unconjugated Antibody: IL4R (MBS2026584) Immunogen: IL4R (MBS2030639)
Matching Pairs	APC-CY7 Conjugated Antibody: IL4R (MBS2062270) Immunogen: IL4R (MBS2030639)
Matching Pairs	PE Conjugated Antibody: IL4R (MBS2062271) Immunogen: IL4R (MBS2030639)
Matching Pairs	APC Conjugated Antibody: IL4R (MBS2062272) Immunogen: IL4R (MBS2030639)
Matching Pairs	Cy3 Conjugated Antibody: IL4R (MBS2062273) Immunogen: IL4R (MBS2030639)
Matching Pairs	FITC Conjugated Antibody: IL4R (MBS2062274) Immunogen: IL4R (MBS2030639)
Matching Pairs	HRP Conjugated Antibody: IL4R (MBS2062275) Immunogen: IL4R (MBS2030639)
Matching Pairs	Biotin Conjugated Antibody: IL4R (MBS2094095) Immunogen: IL4R (MBS2030639)
Molecular Weight	15,797 Da
OMIM	147780
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Predicted Molecular Mass	28.2kDa

Accurate Molecular Mass (KD)	28kDa
Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Expression System	Prokaryotic expression
Tag	N-terminal His-Tag, T7 tag
Organism Species	Mus musculus (Mouse)
Fragment	Ile26~Arg233
Usage	Reconstitute in sterile PBS, pH7.2-pH7.4.
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for IL4R recombinant protein	SDS-PAGE, Western Blot (WB), ELISA (EIA), Immunoprecipitation (IP)
Related Product Information for IL4R recombinant protein	MBS2030639 is a recombinant protein targeting IL4R. Also known as Recombinant Interleukin 4 Receptor (IL4R). Host: E Coli Source: Prokaryotic expression.
Other Notes	Small volumes of IL4R 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.



SDS-Page of IL4R recombinant protein

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for IL4R. It may not necessarily be applicable to this product.

NCBI GI #	4504669
NCBI GeneID	3565
NCBI Accession #	NP_000580.1
UniProt Secondary Accession #	Q14630; Q6NZ77
UniProt Related Accession #	P05112
GenBank Nucleotide #	NM_000589.3
NCBI Official Full Name	interleukin-4 isoform 1
NCBI Official Synonym Full Names	interleukin 4
NCBI Official Symbol	IL4
NCBI Official Synonym Symbols	BSF1; IL-4; BCGF1; BSF-1; BCGF-1
UniProt Protein Name	Interleukin-4

UniProt Synonym Protein Names	B-cell stimulatory factor 1; BSF-1; Binetrakin; Lymphocyte stimulatory factor 1; Pitrakinra
Protein Family	Interleukin-4 receptor
UniProt Gene Name	IL4
UniProt Synonym Gene Names	IL-4; BSF-1
UniProt Entry Name	IL4_HUMAN
NCBI Protein Information	interleukin-4
NCBI Summary for IL4R	The protein encoded by this gene is a pleiotropic cytokine produced by activated T cells. This cytokine is a ligand for interleukin 4 receptor. The interleukin 4 receptor also binds to IL13, which may contribute to many overlapping functions of this cytokine and IL13. STAT6, a signal transducer and activator of transcription, has been shown to play a central role in mediating the immune regulatory signal of this cytokine. This gene, IL3, IL5, IL13, and CSF2 form a cytokine gene cluster on chromosome 5q, with this gene particularly close to IL13. This gene, IL13 and IL5 are found to be regulated coordinately by several long-range regulatory elements in an over 120 kilobase range on the chromosome. Two alternatively spliced transcript variants of this gene encoding distinct isoforms have been reported. [provided by RefSeq, Jul 2008]
UniProt Comments for IL4R	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: Secreted; Cytokine; Cell cycle regulation; Motility/polarity/chemotaxis; Secreted, signal peptide Chromosomal Location of Human Ortholog: 5q31.1 Cellular Component: extracellular space; external side of plasma membrane Molecular Function: protein binding; growth factor activity; cytokine activity; interleukin-4 receptor binding Biological Process: regulation of isotype switching; negative regulation of osteoclast differentiation; positive regulation of isotype switching to IgG isotypes; positive regulation of transcription, DNA-dependent; microglial cell activation; regulation of proton transport; female pregnancy; positive regulation of activated T cell proliferation; chemotaxis; response to organic cyclic substance; positive regulation of interleukin-10 production; positive regulation of isotype switching to IgE isotypes; B cell costimulation; positive regulation of MHC class II biosynthetic process; connective tissue growth factor biosynthetic process; positive regulation of B cell proliferation; positive regulation of T cell proliferation; positive regulation of interleukin-13 production; negative regulation of macrophage activation; response to nutrient; response to drug; cholesterol metabolic process; regulation of immune response; negative regulation of chronic inflammatory response; T-helper 2 type immune response; regulation of phosphorylation; B cell activation; negative regulation of nitric oxide biosynthetic process; negative regulation of acute inflammatory response; defense response to protozoan; T-helper 1 cell lineage commitment; response to ethanol; positive regulation of chemokine biosynthetic process; positive regulation of tyrosine phosphorylation of Stat5 protein; innate immune response in mucosa; positive regulation of T cell differentiation; retina development in camera-type eye; response to cytokine stimulus; B cell differentiation; cellular defense response; positive regulation of transcription factor activity; positive regulation of transcription from RNA polymerase II promoter; immune response; T-helper 2 cell differentiation; positive regulation of defense response to virus by host; negative regulation of transcription, DNA-dependent; negative regulation of apoptosis Disease: Stroke, Ischemic
Research Articles on IL4R	**1.** uPAR has a role in inducing expression of TGFbeta and interleukin-4 in cancer cells to promote tumor-permissive conditioning of macrophages

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