Interleukin-19 (IL19) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	Interleukin-19 (IL19), Recombinant Protein
Full Product Name	Recombinant Human Interleukin-19 (IL19), Biotinylated
Product Gene Name	IL19 recombinant protein
Product Synonym Names	IL-19; Melanoma differentiation-associated protein-like protein; NG.1
Sequence	LRRCLISTDM HHIEESFQEI KRAIQAKDTF PNVTILSTLE TLQIIKPLDV CCVTKNLLAF YVDRVFKDHQ EPNPKILRKI SSIANSFLYM QKTLRQCQEQ RQCHCRQEAT NATRVIHDNY DQLEVHAAAI KSLGELDVFL AWINKNHEVM FSA
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Liquid or Lyophilized powder If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol.If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.
Purity/Purification	Greater than 85% as determined by SDS-PAGE. (lot specific)
Preparation and Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 degree C/-80 degree C. The shelf life of lyophilized form is 12 months at -20 degree C/-80 degree C. Repeated freezing and thawing is not recommended. Store working aliquots at 4 degree C for up to one week.
Molecular Weight	23,079 Da
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
OMIM	605687
3D Structure	ModBase 3D Structure for Q9UHD0
Species	Homo sapiens (Human)
Tag	N-terminal MBP-tagged and C-terminal 6xHis-Avi-tagged
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20 degree C/-80 degree C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
Product Categories/Family for IL19 recombinant protein	Immunology
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for IL19 recombinant protein	Cytokine that functions as an anti-inflammatory and proangiogenic factor. Polarizes adaptive immunity to an anti-inflammatory phenotype through induction of T-helper 2 responses by both down-regulation of IFN-gamma and up-regulation of IL4 and IL13. Produced by osteocytes, stimulates granulopoiesis and neutrophil formation. Exerts its biological effect through a receptor complex consisting of a heterodimer of IL20RA and IL20RB. In turn, activates the Janus kinase (JAK) and signal transducer and activator of transcription (STAT) pathway, and importantly, STAT3.

Other Notes	Small volumes of IL19 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 IL19 purchase	MBS9022182 is a recombinant protein targeting IL19. Also known as Recombinant Human Interleukin-19 (IL19), Biotinylated. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for IL19. It may not necessarily be applicable to this product.

NCBI GI #	30795208
NCBI GeneID	29949
NCBI Accession #	NP_037503.2
UniProt Primary Accession #	Q9UHD0
UniProt Secondary Accession #	Q5VUT3; Q96QR4; Q9NUA0; B6VEV9
UniProt Related Accession #	Q9UHD0
GenBank Nucleotide #	NM_013371.3
NCBI Official Full Name	interleukin-19 isoform 2
NCBI Official Synonym Full Names	interleukin 19
NCBI Official Symbol	IL19
NCBI Official Synonym Symbols	MDA1; NG.1; ZMDA1; IL-10C
UniProt Protein Name	Interleukin-19
UniProt Synonym Protein Names	Melanoma differentiation-associated protein-like protein; NG.1
Protein Family	Interleukin
UniProt Gene Name	IL19
UniProt Synonym Gene Names	ZMDA1; IL-19
UniProt Entry Name	IL19_HUMAN
NCBI Protein Information	interleukin-19; melanoma differentiation associated protein-like protein; melanoma differentiation-associated protein-like protein
NCBI Summary for IL19	The protein encoded by this gene is a cytokine that belongs to the IL10 cytokine subfamily. This cytokine is found to be preferentially expressed in monocytes. It can bind the IL20 receptor complex and lead to the activation of the signal transducer and activator of transcription 3 (STAT3). A similar cytokine in mouse is reported to up-regulate the expression of IL6 and TNF-alpha and induce apoptosis, which suggests a role of this cytokine in inflammatory responses. Alternatively spliced transcript variants encoding the distinct isoforms have been described. [provided by RefSeq, Jul 2008]
UniProt Comments for IL19	IL19: May play some important roles in inflammatory responses. Up-regulates IL-6 and TNF-alpha and induces apoptosis. Belongs to the IL-10 family. Protein type: Secreted; Apoptosis; Cytokine; Secreted, signal peptide Chromosomal Location of Human Ortholog: 1q32.2 Cellular Component: extracellular space; extracellular region Molecular Function: cytokine activity Biological Process: apoptosis; positive regulation of JAK-STAT cascade; immune response; inflammatory response; signal transduction; interleukin-6 biosynthetic process

Research Articles on IL19	**1.** IL-19 as a component of the IL-23/IL-17 axis strengthens the IL-17A action and might be a biomarker for the activity of this axis in chronic inflammatory disorders
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