Interleukin-17a (IL17A) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	Interleukin-17A (IL17A), Recombinant Protein
Full Product Name	Recombinant Human Interleukin-17A (IL17A)
Product Gene Name	IL17A recombinant protein
Product Synonym Gene Name	IL17A
Sequence	GITIPRNPGC PNSEDKNFPR TVMVNLNIHN RNTNTNPKRS SDYYNRSTSP WNLHRNEDPE RYPSVIWEAK CRHLGCINAD GNVDYHMNSV PIQQEILVLR REPPHCPNSF RLEKILVSVG CTCVTPIVHH VA
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	17,504 Da
Sequence Positions	24-155, Full length protein
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	603149
3D Structure	ModBase 3D Structure for Q16552
Species	Human
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for IL17A recombinant protein	This protein is a proinflammatory cytokine produced by activated T cells. This cytokine regulates the activities of NF-kappaB and mitogen-activated protein kinases. This cytokine can stimulate the expression of IL6 and cyclooxygenase-2 (PTGS2 COX-2), as well as enhance the production of nitric oxide (NO). High levels of this cytokine are associated with several chronic inflammatory diseases including rheumatoid arthritis, psoriasis and multiple sclerosis.
Other Notes	Small volumes of IL17A 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 IL17A purchase	MBS1484833 is a recombinant protein targeting IL17A. Also known as Recombinant Human Interleukin-17A (IL17A). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for IL17A. It may not necessarily be applicable to this product.

NCBI GI #	4504651
NCBI GeneID	3605

NCBI Accession #	NP_002181.1
UniProt Primary Accession #	Q16552
UniProt Secondary Accession #	Q5T2P0
UniProt Related Accession #	Q16552
GenBank Nucleotide #	NM_002190.2
NCBI Official Full Name	interleukin-17A
NCBI Official Synonym Full Names	interleukin 17A
NCBI Official Symbol	IL17A
NCBI Official Synonym Symbols	IL17; CTLA8; IL-17; CTLA-8; IL-17A
UniProt Protein Name	Interleukin-17A
UniProt Synonym Protein Names	Cytotoxic T-lymphocyte-associated antigen 8; CTLA-8
Protein Family	Interleukin
UniProt Gene Name	IL17A
UniProt Synonym Gene Names	CTLA8; IL17; IL-17; IL-17A; CTLA-8
NCBI Protein Information	interleukin-17A
NCBI Summary for IL17A	The protein encoded by this gene is a proinflammatory cytokine produced by activated T cells. This cytokine regulates the activities of NF-kappaB and mitogen-activated protein kinases. This cytokine can stimulate the expression of IL6 and cyclooxygenase-2 (PTGS2/COX-2), as well as enhance the production of nitric oxide (NO). High levels of this cytokine are associated with several chronic inflammatory diseases including rheumatoid arthritis, psoriasis and multiple sclerosis. [provided by RefSeq, Jul 2008]
UniProt Comments for IL17A	Ligand for IL17RA and IL17RC (PubMed:17911633). The heterodimer formed by IL17A and IL17F is a ligand for the heterodimeric complex formed by IL17RA and IL17RC (PubMed:18684971). Involved in inducing stromal cells to produce proinflammatory and hematopoietic cytokines (PubMed:8676080).
Research Articles on IL17A	**1.** In estrogen receptor negative breast cancer cells targeting of IL-17A inhibited PDL1 expression in the tumor microenvironment, decreasing the percentage of Treg cells in tumor-infiltrating lymphocytes, and promoting CD4+ and CD8+ T cells to secrete interferon gamma.
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