Interleukin-36 Beta (IL36B) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	Interleukin-36 beta (IL36B), Recombinant Protein
Full Product Name	Recombinant Human Interleukin-36 beta (IL36B)
Product Gene Name	IL36B recombinant protein
Product Synonym Gene Name	IL36B
Sequence	MNPQREAAPK SYAIRDSRQM VWVLSGNSLI AAPLSRSIKP VTLHLIACRD TEFSDKEKGN MVYLGIKGKD LCLFCAEIQG KPTLQLKLQG SQDNIGKDTC WKLVGIHTCI NLDVRESCFM GTLDQWGIGV GRKKWKSSFQ HHHLRKKDKD FSSMRTNIGM PGRM
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	17,702 Da
Sequence Positions	1-164, 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	605508
3D Structure	ModBase 3D Structure for Q9NZH7
Species	Human
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for IL36B recombinant protein	This protein is a member of the interleukin 1 cytokine family. Protein structure modeling indicated that this cytokine may contain a 12-stranded beta-trefoil structure that is conserved between IL1A (IL-A alpha) and IL1B (IL-1 beta). This gene and eight other interleukin 1 family genes form a cytokine gene cluster on chromosome 2. Two alternatively spliced transcript variants encoding distinct isoforms have been reported.
Other Notes	Small volumes of IL36B 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 IL36B purchase	MBS1386622 is a recombinant protein targeting IL36B. Also known as Recombinant Human Interleukin-36 beta (IL36B). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for IL36B. It may not necessarily be applicable to this product.

NCBI GI #	20070252
NCBI GeneID	27177

NCBI Accession #	NP_055253.2
UniProt Primary Accession #	Q9NZH7
UniProt Secondary Accession #	Q3MIH0; Q53SR6; Q7RTZ7; Q9UHA5
UniProt Related Accession #	Q9NZH7
GenBank Nucleotide #	NM_014438.4
NCBI Official Full Name	interleukin-36 beta isoform 1
NCBI Official Synonym Full Names	interleukin 36 beta
NCBI Official Symbol	IL36B
NCBI Official Synonym Symbols	FIL1; FIL1H; IL1F8; IL1H2; IL-1F8; IL-1H2; IL1-ETA; FIL1-(ETA); FILI-(ETA)
UniProt Protein Name	Interleukin-36 beta
UniProt Synonym Protein Names	FIL1 eta; Interleukin-1 eta; IL-1 eta; Interleukin-1 family member 8; IL-1F8; Interleukin-1 homolog 2; IL-1H2
Protein Family	Interleukin
UniProt Gene Name	IL36B
UniProt Synonym Gene Names	IL1F8; IL1H2; IL-1 eta; IL-1F8; IL-1H2
NCBI Protein Information	interleukin-36 beta
NCBI Summary for IL36B	The protein encoded by this gene is a member of the interleukin 1 cytokine family. Protein structure modeling indicated that this cytokine may contain a 12-stranded beta-trefoil structure that is conserved between IL1A (IL-A alpha) and IL1B (IL-1 beta). This gene and eight other interleukin 1 family genes form a cytokine gene cluster on chromosome 2. Two alternatively spliced transcript variants encoding distinct isoforms have been reported. [provided by RefSeq, Jul 2008]
UniProt Comments for IL36B	Cytokine that binds to and signals through the IL1RL2/IL-36R receptor which in turn activates NF-kappa-B and MAPK signaling pathways in target cells linked to a pro-inflammatory response. Part of the IL-36 signaling system that is thought to be present in epithelial barriers and to take part in local inflammatory response; similar to the IL-1 system with which it shares the coreceptor IL1RAP. Stimulates production of interleukin-6 and interleukin-8 in synovial fibrobasts, articular chondrocytes and mature adipocytes. Induces expression of a number of antimicrobial peptides including beta-defensins 4 and 103 as well as a number of matrix metalloproteases. Seems to be involved in skin inflammatory response by acting on keratinocytes, dendritic cells and indirectly on T-cells to drive tissue infiltration, cell maturation and cell proliferation. In cultured keratinocytes induces the expression of macrophage, T-cell, and neutrophil chemokines, such as CCL3, CCL4, CCL5, CCL2, CCL17, CCL22, CL20, CCL5, CCL2, CCL17, CCL22, CXCL8, CCL20 and CXCL1, and the production of proinflammatory cytokines such as TNF-alpha, IL-8 and IL-6.
Research Articles on IL36B	**1.** IL-36 promotes myeloid cell infiltration, activation, and inflammatory activity in skin
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