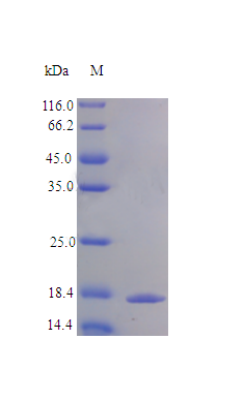
Interleukin-33 Protein (IL33) Human Active Protein

PRODUCT OVERVIEW

Product Name	Interleukin-33 protein (IL33), Active Protein
Full Product Name	Recombinant Human Interleukin-33 protein (IL33) (Active)
Product Gene Name	IL33 active protein
Product Synonym Gene Name	C9orf26; IL1F11; NFHEV
Product Synonym Names	IL-33; IL-1F11; Nuclear factor from high endothelial venules; NF-HEV;
Sequence	SITGISPIT EYLASLSTYN DQSITFALED ESYEIYVEDL KKDEKKDKVL LSYYESQHPS NE SGDGVDGK MLMVTLSPTK DFWLHANNKE HSVELHKCEK PLPDQAFFVL HNMHSNCVSF ECKTDPGVFI GVKDNHLALI KVDSSENLCT ENILFKLSET
Host	E Coli
Form/Format	Lyophilized
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Generally, the shelf life of liquid form is 6 months at -20/-80 degree C. The shelf life of lyophilized form is 12 months at -20/-80 degree C.
Molecular Weight	17.9 kDa
Sequence Positions	112-270aa
OMIM	AB024518 mRNA
3D Structure	ModBase 3D Structure for O95760
Active Protein Note	Protein activity can be an ambiguous term. Please refer to the data sheet or inquire with Technical Support to determine the definition of activity for this product.
Species	Homo sapiens (Human)
Biological Activity	Fully biologically active when compared to standard. The ED50 as determined by a cell proliferation assay using murine D10S cells is less than 0.05 ng/ml, corresponding to a specific activity of > 2.0 × 107 IU/mg.
Endotoxin	Less than 1.0 EU/ug as determined by LAL method.
Protein Note	Protein will be provided with aseptic processing and endotoxin removal.
Product Categories/Family for IL33 active protein	Biological Active Protein; Immunology; Interleukin
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for IL33 active protein	Cytokine that binds to and signals through the IL1RL1/ST2 receptor which in turn activates NF-kappa-B and MAPK signaling pathways in target cells (PubMed:16286016). Involved in the maturation of Th2 cells inducing the secretion of T-helper type 2-associated cytokines. Also involved in activation of mast cells, basophils, eosinophils and natural killer cells. Acts as a chemoattractant for Th2 cells, and may function as an "alarmin", that amplifies immune responses during tissue injury (PubMed:17853410, PubMed:18836528). {ECO:0000269|PubMed:16286016, ECO:0000269|PubMed:17853410, ECO:0000269|PubMed:18836528}.; In quiescent endothelia the uncleaved form is constitutively and abundantly expressed, and acts as a chromatin-associated nuclear factor with transcriptional repressor properties, it may sequester nuclear NF-kappaB/RELA, lowering expression of its targets (PubMed:21734074). This form is rapidely lost upon angiogenic or proinflammatory activation (PubMed:18787100). {ECO:0000269|PubMed:18787100, ECO:0000269|PubMed:21734074}.

Other Notes	Small volumes of IL33 active 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 IL33 purchase	MBS969309 is an active protein targeting IL33. Also known as Recombinant Human Interleukin-33 protein (IL33) (Active). Host: E Coli.



SDS-PAGE of IL33 active protein

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for IL33. It may not necessarily be applicable to this product.

NCBI GI #	313851030
NCBI GeneID	90865
NCBI Accession #	NP_001186569.1
UniProt Primary Accession #	O95760
UniProt Secondary Accession #	Q2YEJ5; B2R8L1; B4DJ35; B4E1Q9; D3DRI5; E7EAX4
UniProt Related Accession #	O95760
GenBank Nucleotide #	NM_001199640.1
NCBI Official Full Name	interleukin-33 isoform b
NCBI Official Synonym Full Names	interleukin 33
NCBI Official Symbol	IL33
NCBI Official Synonym Symbols	DVS27; IL1F11; NF-HEV; NFEHEV; C9orf26
UniProt Protein Name	Interleukin-33
UniProt Synonym Protein Names	Interleukin-1 family member 11; IL-1F11
Protein Family	Interleukin
UniProt Gene Name	IL33
UniProt Synonym Gene Names	C9orf26; IL1F11; NFHEV; IL-33; IL-1F11; NF-HEV
NCBI Protein Information	interleukin-33
NCBI Summary for IL33	The protein encoded by this gene is a cytokine that binds to the IL1RL1/ST2 receptor. The encoded protein is involved in the maturation of Th2 cells and the activation of mast cells, basophils, eosinophils and natural killer cells. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2015]

UniProt Comments for IL33	IL33: Cytokine that binds to and signals through IL1RL1/ST2 and its stimulation recruits MYD88, IRAK1, IRAK4, and TRAF6, followed by phosphorylation of MAPK3/ERK1 and/or MAPK1/ERK2, MAPK14, and MAPK8. Induces T-helper type 2-associated cytokines. Belongs to the IL-1 family. Highly divergent. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Cytokine Chromosomal Location of Human Ortholog: 9p24.1 Cellular Component: cytosol; extracellular region; nucleoplasm Molecular Function: cytokine activity; protein binding Biological Process: positive regulation of inflammatory response; positive regulation of macrophage activation; positive regulation of transcription from RNA polymerase II promoter; protein deubiquitination; T-helper 2 type immune response
Research Articles on IL33	**1.** Data provide evidence that increased IL-33/ST2 levels in patients with chronic kidney disease are an indicator of increased inflammation, impaired endothelial functions, and cardiovascular events.
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