Matrix Metalloproteinase-21 (MMP21) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	Matrix metalloproteinase-21 (MMP21), Recombinant Protein
Full Product Name	Recombinant Human Matrix metalloproteinase-21 (MMP21)
Product Gene Name	MMP21 recombinant protein
Product Synonym Gene Name	MMP21
Sequence	SPRAPLSLSR RGWQPRGYPD GGAAQAFSKR TLSWRLLGEA LSSQLSVADQ RRIVALAFRM WSEVTPLDFR EDLAAPGAAV DIKLGFGRGR HLGCPRAFDG SGQEFAHAWR LGDIHFDDDE HFTPPTSDTG ISLLKVAVHE IGHVLGLPHT YRTGSIMQPN YIPQEPAFEL DWSDRKAIQK LYGSCEGSFD TAFDWIRKER NQYGEVMVRF STYFFRNSWY WLYENRNNRT RYGDPIQILT GWPGIPTHNI DAFVHIWTWK RDERYFFQGN QYWRYDSDKD QALTEDEQGK SYPKLISEGF PGIPSPLDTA FYDRRQKLIY FFKESLVFAF DVNRNRVLNS YPKRITEVFP AVIPQNHPFR NIDSAYYSYA YNSIFFFKGN AYWKVVNDKD KQQNSWLPAN GLFPKKFISE KWFDVCDVHI STLNM
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	65,043 Da
Sequence Positions	145-569, 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	608416
3D Structure	ModBase 3D Structure for Q8N119
Species	Human
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for MMP21 recombinant protein	This gene encodes a member of the matrix metalloproteinase family. Proteins in this family are involved in the breakdown of extracellular matrix for both normal physiological processes, such as embryonic development, reproduction, and tissue remodeling,and disease processes, such as asthma and metastasis. The encoded protein may play an important role in embryogenesis, particularly in neuronal cells, as well as in lymphocyte development and survival.
Other Notes	Small volumes of MMP21 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 MMP21 purchase	MBS1347428 is a recombinant protein targeting MMP21. Also known as Recombinant Human Matrix metalloproteinase-21 (MMP21). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MMP21. It may not necessarily be applicable to this product.

NCBI GI #	22218341
NCBI GeneID	118856
NCBI Accession #	NP_671724.1
UniProt Primary Accession #	Q8N119
UniProt Secondary Accession #	Q5VZP9; Q8NG02
UniProt Related Accession #	Q8N119
GenBank Nucleotide #	NM_147191.1
NCBI Official Full Name	matrix metalloproteinase-21 preproprotein
NCBI Official Synonym Full Names	matrix metallopeptidase 21
NCBI Official Symbol	MMP21
NCBI Official Synonym Symbols	HTX7; MMP-21
UniProt Protein Name	Matrix metalloproteinase-21
Protein Family	Matrix metallopeptidase
UniProt Gene Name	MMP21
UniProt Synonym Gene Names	MMP-21
NCBI Protein Information	matrix metalloproteinase-21
NCBI Summary for MMP21	This gene encodes a member of the matrix metalloproteinase family. Proteins in this family are involved in the breakdown of extracellular matrix for both normal physiological processes, such as embryonic development, reproduction, and tissue remodeling, and disease processes, such as asthma and tumor metastasis. The encoded protein may play an important role in embryogenesis, particularly in neuronal cells, as well as in lymphocyte development and survival. [provided by RefSeq, May 2013]
UniProt Comments for MMP21	Plays a specialized role in the generation of left-right asymmetry during embryogenesis. May act as a negative regulator of the NOTCH-signaling pathway (PubMed:26429889, PubMed:26437028). Cleaves alpha-1-antitrypsin (PubMed:12617721).
Research Articles on MMP21	**1.** loss of MMP21 as a cause of heterotaxy in humans with concomitant defects in Notch signaling.
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