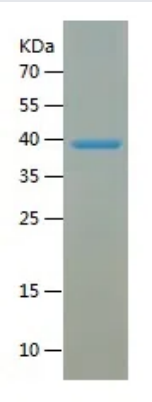
MMP8 Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	MMP8, Recombinant Protein
Full Product Name	Recombinant Human MMP8
Product Gene Name	MMP8 recombinant protein
Product Synonym Names	CLG1 Protein; HNC Protein; Matrix metalloproteinase 8 Protein; MMP 8 Protein; MMP8 Protein; Neutrophil collagenase Protein; PMNL CL Protein; PMNL collagenase Protein
Host	E Coli
Form/Format	Lyophilized from a 0.2 um filtered solution in 10 mM Hepes, 500 mM NaCl with 5% trehalose, pH7.4
Purity/Purification	Greater than 90% as determined by SDS-PAGE
Preparation and Storage	The lyophilized protein is stable at -20 degree C for up to 1 year, the protein solution can be stored at 2-8 degree C for up to 1 week under sterile condition.For extended storage, it is recommended to further dilute in a buffer containing 0.1% BSA (make sure BSA will NOT interfere with your experiment) and store in working aliquots at -20 degree C to -80 degree C for 6 months. Avoid repeated freeze/thaw cycle.
Molecular Weight	53,412 Da
Sequence Positions	115-467
Chromosome Location	Chromosome: 11; NC_000011.9 (102582526..102595685, complement). Location: 11q22.3
OMIM	120355
3D Structure	ModBase 3D Structure for P22894
Species	Human
Tag	N-terminal His
Reconstitution	Centrifuge the vial prior to opening, reconstitute in sterile distilled water or buffer of interest to concentration of 0.1-1mg/ml by gently pipetting 2-3 times, don't vortex
Product Categories/Family for MMP8 recombinant protein	recombinant-proteins
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for MMP8 recombinant protein	Western Blot (WB), ELISA (EIA)
Related Product Information for MMP8 recombinant protein	MBS7617536 is a recombinant protein targeting MMP8. Also known as Recombinant Human MMP8. Host: E Coli.
Other Notes	Small volumes of MMP8 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.



SDS-Page of MMP8 recombinant protein

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MMP8. It may not necessarily be applicable to this product.

NCBI GI #	4505221
NCBI GeneID	4317
NCBI Accession #	NP_002415.1
UniProt Primary Accession #	P22894
UniProt Secondary Accession #	Q45F99
UniProt Related Accession #	P22894
GenBank Nucleotide #	NM_002424.2
NCBI Official Full Name	neutrophil collagenase preproprotein
NCBI Official Synonym Full Names	matrix metallopeptidase 8 (neutrophil collagenase)
NCBI Official Symbol	MMP8
NCBI Official Synonym Symbols	HNC; CLG1; MMP-8; PMNL-CL
UniProt Protein Name	Neutrophil collagenase
UniProt Synonym Protein Names	Matrix metalloproteinase-8; MMP-8; PMNL collagenase
Protein Family	Neutrophil collagenase
UniProt Gene Name	MMP8
UniProt Synonym Gene Names	CLG1; MMP-8; PMNL-CL
UniProt Entry Name	MMP8_HUMAN
NCBI Protein Information	neutrophil collagenase; PMNL collagenase; matrix metalloproteinase-8; matrix metalloproteinase 8 (neutrophil collagenase)
NCBI Summary for MMP8	Proteins of the matrix metalloproteinase (MMP) family are involved in the breakdown of extracellular matrix in normal physiological processes, such as embryonic development, reproduction, and tissue remodeling, as well as in disease processes, such as arthritis and metastasis. Most MMP's are secreted as inactive proproteins which are activated when cleaved by extracellular proteinases. However, the enzyme encoded by this gene is stored in secondary granules within neutrophils and is activated by autolytic cleavage. Its function is degradation of type I, II and III collagens. The gene is part of a cluster of MMP genes which localize to chromosome 11q22.3. [provided by RefSeq, Jul 2008]

UniProt Comments for MMP8	MMP8: Can degrade fibrillar type I, II, and III collagens. Belongs to the peptidase M10A family. Protein type: Secreted; EC 3.4.24.34; Protease; Secreted, signal peptide Chromosomal Location of Human Ortholog: 11q22.3 Cellular Component: proteinaceous extracellular matrix; extracellular space; extracellular region Molecular Function: zinc ion binding; metalloendopeptidase activity; serine-type endopeptidase activity; calcium ion binding Biological Process: collagen catabolic process; extracellular matrix disassembly; extracellular matrix organization and biogenesis; proteolysis
Research Articles on MMP8	**1.** The content of MMP-8 an MMP-9 in oral fluid of patients with severe periodontium was slightly higher than that in other patients and subjects with the intact periodontium.
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