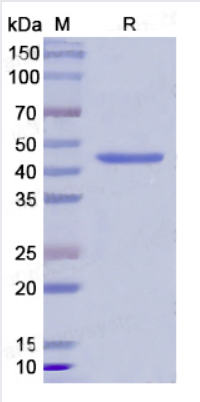
MMP11 Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	MMP11, Recombinant Protein
Full Product Name	Recombinant Human MMP11, N-His
Product Gene Name	MMP11 recombinant protein
Product Synonym Names	Matrix metalloproteinase-11; MMP-11; STMY3; Stromelysin-3; ST3; SL-3; MMP11
Host	E coli
Form/Format	Lyophilized from a solution in PBS pH7.4, 0.02% NLS, 1mM EDTA, 4% Trehalose, 1% Mannitol.
Purity/Purification	>90% as determined by SDS-PAGE
Preparation and Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 degree C for one week. Store at -20 to -80 degree C for twelve months from the date of receipt.
Molecular Weight	54,590 Da
Sequence Positions	Phe98-Leu488
Chromosome Location	Chromosome: 22; NC_000022.10 (24115036..24126503). Location: 22q11.23
OMIM	185261
3D Structure	ModBase 3D Structure for P24347
Species	Human
Reconstitution	Reconstitute in sterile water for a stock solution.
Product Categories/Family for MMP11 recombinant protein	Recombinant Proteins
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for MMP11 recombinant protein	SDS-PAGE (SDS), Western Blot (WB), ELISA (EIA), Immunogen
Related Product Information for MMP11 recombinant protein	MBS1573693 is a recombinant protein targeting MMP11. Also known as Recombinant Human MMP11, N-His. Host: E coli.
Other Notes	Small volumes of MMP11 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 MMP11 recombinant protein
SDS PAGE for recombinant Human MMP11

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MMP11. It may not necessarily be applicable to this product.

NCBI GI #	58331148
NCBI GeneID	4320
NCBI Accession #	NP_005931.2
UniProt Primary Accession #	P24347
UniProt Secondary Accession #	Q5FX24; Q6PEZ6; Q9UC26
UniProt Related Accession #	P24347
GenBank Nucleotide #	NM_005940.3
NCBI Official Full Name	stromelysin-3 preproprotein
NCBI Official Synonym Full Names	matrix metallopeptidase 11 (stromelysin 3)
NCBI Official Symbol	MMP11
NCBI Official Synonym Symbols	ST3; SL-3; STMY3
UniProt Protein Name	Stromelysin-3
UniProt Synonym Protein Names	Matrix metalloproteinase-11
Protein Family	Stromelysin
UniProt Gene Name	MMP11
UniProt Synonym Gene Names	STMY3; SL-3; ST3; MMP-11
UniProt Entry Name	MMP11_HUMAN
NCBI Protein Information	stromelysin-3; MMP-11; stromelysin III
NCBI Summary for MMP11	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 activated intracellularly by furin within the constitutive secretory pathway. Also in contrast to other MMP's, this enzyme cleaves alpha 1-proteinase inhibitor but weakly degrades structural proteins of the extracellular matrix. [provided by RefSeq, Jul 2008]

UniProt Comments for MMP11	MMP11: May play an important role in the progression of epithelial malignancies. Belongs to the peptidase M10A family. Protein type: Extracellular matrix; EC 3.4.24.-; Secreted, signal peptide; Protease; Secreted Chromosomal Location of Human Ortholog: 22q11.23 Cellular Component: proteinaceous extracellular matrix; Golgi lumen; extracellular region Molecular Function: zinc ion binding; metalloendopeptidase activity; calcium ion binding Biological Process: extracellular matrix disassembly; collagen catabolic process; extracellular matrix organization and biogenesis; collagen fibril organization; multicellular organismal development; proteolysis; negative regulation of fat cell differentiation
Research Articles on MMP11	**1.** Data suggest that intra- and extracellular tracking of MMP-11-overexpressing cancer cells might contribute to the understanding of the activation pathways leading to MMP-11-mediated invasive processes.
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