

Recombinant Human MMP11, His-tagged

Cat. No. MMP11-27650TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human MMP11 with His and a proprietary tag; 702 amino acids with tag, MWt 79.8kDa.
Species	Human
Source	E.coli
Description	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 MMPs 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 MMPs, this enzyme cleaves alpha 1-proteinase inhibitor but weakly degrades structural proteins of the extracellular matrix.
Conjugation	HIS
Tissue specificity	Specifically expressed in stromal cells of breast carcinomas.
Form	Liquid
Purity	>90% by SDS-PAGE
Storage buffer	Preservative: 100mM Imidazole Constituents: 0.5M Sodium chloride, 20mM Tris HCl,

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	1mM Beta mercaptoethanol, pH 8.0
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequence Similarities	Belongs to the peptidase M10A family.Contains 4 hemopexin-like domains.
Full Length	Full L.
GENE INFORMATION	
Gene Name	MMP11 matrix metalloproteinase 11 (stromelysin 3) [Homo sapiens]
Official Symbol	MMP11
Synonyms	MMP11; matrix metalloproteinase 11 (stromelysin 3); matrix metalloproteinase 11 (stromelysin 3) , STMY3; stromelysin-3;
Gene ID	4320
mRNA Refseq	NM_005940
Protein Refseq	NP_005931
MIM	185261
Uniprot ID	P24347
Chromosome Location	22q11.23

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Pathway

Matrix Metalloproteinases, organism-specific biosystem;

Function

calcium ion binding; metalloendopeptidase activity; peptidase activity; zinc ion binding;

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