

## Recombinant Human MMP11 Protein, GST-tagged

Cat. No. MMP11-5417H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Human MMP11 full-length ORF (1 a.a. - 488 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Species</b>	Human
<b>Source</b>	Wheat Germ
<b>ProteinLength</b>	1-488 aa
<b>Description</b>	<p>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. [provided by RefSeq]</p>
<b>Molecular Mass</b>	81 kDa
<b>AA Sequence</b>	<p>MAPAAWLRSAAARALLPPMLLLLLQPPLLARALPPDVHHLHAERRGPQPWHAALP            SSPAPAPATQEAPRPASSLRPPRCGVPDPSDGLSARNRQKRQKRVLSGGRWEKTDLT            YRILRFPWQLVQEQVRQTMAEALKVWSDVTPLTFTEVHEGRADIMIDFARYWHGDD            LPFDGPGGILAHAFPPKTHREGDVHFDYDETWTIGDDQGTDLLQVAAHEFGHVLGL</p>

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QHTTAAKALMSAFYTFRYPLSLSPDDCRGVQHLYGQPWPTVTSRTPALGPQAGIDT  
 NEIAPLEPDAPPDACEASFDAVSTIRGELFFFKAGFVWRLRGGQLQPGYPALASRH  
 WQGLPSPVDAAFEDAQQGHIWFFQGAQYWVYDGEKPVLPAPLTELGLVRFVHAA  
 LVWGPEKNKIYFFRGRDYWRFHPSTRRVDSPVPRRATDWRGVPSEIDAAFQDADG  
 YAYFLRGRLYWKFDVPVKVKALEGFPRLVGPDDFFGCAEPANTFL

**Applications**  
 Enzyme-linked Immunoabsorbent Assay  
 Western Blot (Recombinant protein)  
 Antibody Production  
 Protein Array

**Notes**  
 Best use within three months from the date of receipt of this protein.

**Storage**  
 Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

**Storage Buffer**  
 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

## 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; MMP-11; stromelysin III; ST3; SL-3; STMY3;

**Gene ID** [4320](#)

**mRNA Refseq** [NM\\_005940](#)

**Protein Refseq** [NP\\_005931](#)

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<b>MIM</b>	185261
<b>UniProt ID</b>	P24347

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