

Recombinant Human MMP16, Catalytic Domain

Cat. No. MMP16-608H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human MMP16 was produced in <i>E. coli</i> .
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 MMP's are secreted as inactive proproteins which are activated when cleaved by extracellular proteinases. This gene produces at least two transcripts, one which encodes a membrane-bound form and another a soluble form of the protein. Both forms of the protein activate MMP2 by cleavage. This gene was once referred to as MT-MMP2, but was renamed as MT-MMP3 or MMP16.
Purity	≥95% (SDS-PAGE).
Formulation	Liquid. In 50mM TRIS-HCl, pH 7.5 containing 150mM NaCl, 5mM CaCl ₂ , 1% glycerol and 0.1% Triton X-100.
Concentration	0.2mg/ml.
Specific Activity	≥75mU/mg protein. One unit is defined as the amount of enzyme that hydrolyzes 1μmol Mca-Pro-Leu-Gly-Leu-Dpa-Ala-Arg-NH ₂ per min. at 37°C, pH 7.5.

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Storage Store at -80°C.

GENE INFORMATION

Gene Name [MMP16 matrix metallopeptidase 16 \(membrane-inserted\) \[Homo sapiens \]](#)

Synonyms MMP16; matrix metallopeptidase 16 (membrane-inserted); MMP-X2; C8orf57; MT-MMP2; MT-MMP3; MT3-MMP; DKFZp761D112; matrix metalloproteinase-16; MMP-16; MT3MMP; MTMMP3; MT-MMP 3; membrane-type matrix metalloproteinase 3; membrane-type-3 matrix metalloproteinase; EC 3.4.24.-; chromosome 8 open reading frame 57; Matrix metalloproteinase-16

Gene ID [4325](#)

mRNA Refseq [NM_005941](#)

Protein Refseq [NP_005932](#)

MIM [602262](#)

UniProt ID [P51512](#)

Chromosome Location 8q21.3

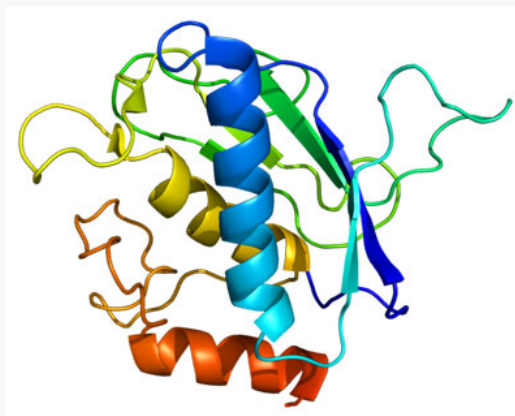
Function calcium ion binding; enzyme activator activity; metalloendopeptidase activity; peptidase activity; zinc ion binding

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