

Recombinant Human MMP15, Catalytic Domain

Cat. No. MMP15-607H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human MMP15 was produced in <i>E. coli</i> . MW = 20kDa.
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. However, the protein encoded by this gene is a member of the membrane-type MMP (MT-MMP) subfamily; each member of this subfamily contains a potential transmembrane domain suggesting that these proteins are expressed at the cell surface rather than secreted.
Purity	≥90% (SDS-PAGE).
Formulation	Liquid. In 50mM TRIS-HCl, pH 7.5, containing 150mM NaCl, 5mM CaCl ₂ , 50mM imidazol and 0.05% Brji-35.
Concentration	0.2mg/ml.
Specific Activity	≥30mU/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

Stable for several weeks when stored at -20°C. Avoid freeze/thaw cycles. After reconstitution, prepare aliquots and store at -80°C.

GENE INFORMATION
Gene Name

MMP15 matrix metalloproteinase 15 (membrane-inserted) [Homo sapiens]

Synonyms

MMP15; matrix metalloproteinase 15 (membrane-inserted); MTMMP2; SMCP-2; MT2-MMP; matrix metalloproteinase-15; MMP-15; MT2MMP; MT-MMP 2; membrane-type matrix metalloproteinase 2; membrane-type-2 matrix metalloproteinase; matrix metalloproteinase 15 (membrane-inserted); EC 3.4.24.-; Matrix metalloproteinase-15

Gene ID

4324

mRNA Refseq

NM_002428

Protein Refseq

NP_002419

MIM

602261

UniProt ID

P51511

**Chromosome
Location**

16q13-q21

Function

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

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