Recombinant Human MMP15, Catalytic Domain

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

SPECIFICATION

Product Overview	Recombinant Human MMP15 wasproduced in*E. coli.*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 CaCl2, 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-NH2 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 metallopeptidase 15 (membrane-inserted) [Homo sapiens]
Synonyms	MMP15; matrix metallopeptidase 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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