

Recombinant Human MMP24, Catalytic Domain, His-tagged

Cat. No. MMP24-610H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human MMP17 was produced in <i>E.coli</i> . Activation generates two molecular species. One species begins at the N-terminus with Tyr156 of full-length MMP-24, while the other species is two aa residues shorter and starts with Leu158. Both species extend to Ser351 of MMP-24 and contain an additional His-tag sequence at the C-terminus.
Species	Human
Source	<i>E.coli</i>
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. This protein activates MMP2 by cleavage. The gene has previously been referred to as MMP25 but has been renamed MMP24.
Purity	≥90% (SDS-PAGE).
Formulation	Liquid. In 50mM TRIS-HCl, pH 7.5, containing 150mM NaCl and 5mM CaCl ₂ .

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Concentration	0.2mg/ml.
Specific Activity	≥120mU/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.
Storage	Store at -80°C.

GENE INFORMATION

Gene Name	MMP24 matrix metalloproteinase 24 (membrane-inserted) [Homo sapiens]
Synonyms	MMP24; matrix metalloproteinase 24 (membrane-inserted); MMP25; MT-MMP5; MT5-MMP; matrix metalloproteinase-24; MMP-24; MT5MMP; MTMMP5; MT-MMP 5; membrane-type 5 matrix metalloproteinase; membrane-type matrix metalloproteinase 5; membrane-type-5 matrix metalloproteinase; Matrix metalloproteinase-24; EC 3.4.24.-; Processed matrix metalloproteinase-24; matrix metalloproteinase 24 (membrane-inserted)
Gene ID	10893
mRNA Refseq	NM_006690
Protein Refseq	NP_006681
MIM	604871
UniProt ID	Q9Y5R2
Chromosome Location	20q11.2

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Function

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

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