

Active Recombinant Human MMP14 protein, mutation C127S, No Activation Required

Cat. No. MMP14-33H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Matrix Metalloproteinase-14 (MMP-14, Membrane-Type Matrix Metalloproteinase1, MT1- MMP) cloned from human cDNA, expressed in E. coli. The enzyme consists of the catalytic domain of human MMP-14 (residues 114-290, UniProtKB accession P50281). The protein has the mutation C127S to increase its stability. The catalytic activity rates are not affected by the mutation.
Species	Human
Source	Non
ProteinLength	114-290 aa
Tag	Non
Bio-activity	> 150 U/μg. Activity described as U=100 pmol/min at 25°C using a colorimetric assay with thiopeptide Ac-Pro-Leu-Gly-[2- mercapto-4-methyl-pentanoyl]-Leu-Gly-OC2H5 (B iomol) as substrate.
Molecular Mass	20.1 kDa
AA Sequence	IQGLKWQ HNEITFSIQN YTPKVG EYAT YEAIRKAFRV WESATPLRFR EVPYAYIREG HEKQADIMIF FAEGFHGDST PFDGEGGFLA HAYFPGPNIGGDTHFDSAEP WTVRNEDLNG NDIFLVAVHE LGHALGLEHS SDPSAIMAPF

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	YQWMDTENFV LPDDDRRGIQ QLYGGESGFP
Purity	> 95% by SDS-PAGE
Usage	Enzyme kinetic studies, cleavage of target substrates and screening of inhibitors.
Storage	-80°C. After initial defrost, aliquot the product into individual tubes and refreeze at -80°C. Avoid repeated freeze/thaw cycles.
Storage Buffer	0.2 mg/mL solution in Tris 20 mM pH 7.2, CaCl ₂ 10 mM, ZnCl ₂ 0.1 mM, NaCl 0.3 M, acetohydroxamic acid (AHA) 0.5 M.
GenelD	4323
References	M. Gioia et al. J Mol Biol. 2007 May 11;368(4):1101-13. K. Lehti et al. J. Biol. Chem. 2000, 275:15006-13. G. Murphy and V. Knäuper Matrix Biol. 1997, 15, 511. W. Bode et al. Cell Mol Life Sci 1999, 55:639-52.

GENE INFORMATION

Gene Name	MMP14 matrix metalloproteinase 14 [Homo sapiens (human)]
Official Symbol	MMP14
Synonyms	MMP-14,MMP-X1,MT-MMP,MT1MMP,MTMMP1,WNCHRS,MT1-MMP,MT-MMP 1,MMP14
mRNA Refseq	NM_004995

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Protein Refseq	NP_004986
MIM	600754
UniProt ID	P50281

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