

MMP-16 Protein, Human (I152N, His)

Cat. No.:	HY-P79097
Synonyms:	Matrix metalloproteinase-16; MMP16; MMP-16; MMP-X2; Membrane-type matrix metalloproteinase 3; MT-MMP 3; MTMMP3; Membrane-type-3 matrix metalloproteinase; MT3-MMP; MT3MMP; C8orf57; MMPX2; Matrix Metalloproteinase 16/Membrane Type 3 MMP
Species:	Human
Source:	E. coli
Accession:	P51512 (A32-G291, I152N)
Gene ID:	4325
Molecular Weight:	Approximately 29 kDa

PROPERTIES

AA Sequence	<pre> A T V C G T E Q Y F N V E V W L Q K Y G Y L P P T D P R M S V L R S A E T M Q S A L A A M Q Q F Y G I N M T G K V D R N T I D W M K K P R C G V P D Q T R G S S K F H I R R K R Y A L T G Q K W Q H K H I T Y S I K N V T P K V G D P E T R K A N R R A F D V W Q N V T P L T F E E V P Y S E L E N G K R D V D I T I I F A S G F H G D S S P F D G E G G F L A H A Y F P G P G I G G D T H F D S D E P W T L G N P N H D G N D L F L V A V H E L G H A L G L E H S N D P T A I M A P F Y Q Y M E T D N F K L P N D D L Q G I Q K I Y G </pre>
Biological Activity	Measured by its ability to cleave a fluorogenic peptide substrate Mca-KPLGL-Dpa-AR-NH ₂ . The specific activity is >250 pmol/min/μg.
Appearance	Solution
Formulation	Liquid from sterile 50 mM Tris-HCL, 300 mM NaCl, 200 mM arginine, 0.4% SKL, 20% Glycerol, pH 8.0.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconstitution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice

DESCRIPTION

Background	MMP-16 (Matrix Metalloproteinase-16) is an endopeptidase pivotal in the degradation of diverse extracellular matrix components, including collagen type III and fibronectin. It demonstrates the ability to activate progelatinase A, contributing to the regulation of matrix remodeling in blood vessels. The short isoform of MMP-16 is particularly notable for its cleavage
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of fibronectin and collagen type III, albeit at a reduced rate, with no discernible effect on collagen types I, II, IV, and V. However, in the presence of CSPG4, MMP-16 may play a role in the degradation and invasion of type I collagen by melanoma cells. This dual functionality underscores the complex and context-dependent nature of MMP-16's involvement in extracellular matrix dynamics, highlighting its potential implications in physiological and pathological processes, including those associated with vascular remodeling and cancer progression. (

Caution: Product has not been fully validated for medical applications. For research use only.

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