

72 kDa type IV collagenase Recombinant Protein | Mmp2 recombinant protein

Recombinant Rat 72 kDa type IV collagenase

CATALOG #
AAA114938

HOST
E Coli or Yeast or Baculovirus or Mammalian Cell

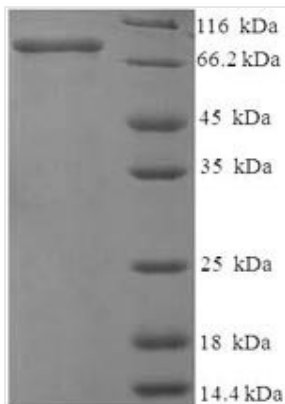
PRODUCT SYNONYMS

72 kDa type IV collagenase; Recombinant Rat 72 kDa type IV collagenase; 72 kDa gelatinaseGelatinase A; Matrix metalloproteinase-2; MMP-2; Mmp2 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	110-662. Full Length of Mature Protein
Sequence	YNFFPRKPKW DKNQITYRII GYTPDLDPET VDDAFARALK VWSDVTPLRF SRIHDGEADI MINFGRWEHG DGYPFDGKDG LLAHAFAPGT GVGGDSHFDD DELWTLGEGQ VVRVKYGNAD GEYCKFPFLF NGREYSSCTD TGRSDGFLWC STTYNFEKDG KYGFCPHEAL FTMGGNGDGQ PCKFPFRFQG TSYNSCTTEG RTDGYRWCGT TEDYDRDKKY GFCPETAMST VGGNSEGAPC VFPFTFLGNK YESCTSAGRS DGKVWCATTT NYDDDRKWGF CPDQGYSLFL VAAHEFGHAM GLEHSQDPGA LMAPIYTYK NFRLSNDDIK GIQELYGPSP DADTDGTGP TPTLGPVTPE ICKQDIVFDG IAQIRGEIFF FKDRFIWRTV TPRDKPTGPL LVATFWPELP EKIDAVYEAP QEEKAVFFAG NEYWVYSAST LERGYPKPLT SLGLPPDVQQ VDAAFNWSKN KKTYIFSGDK FWRYNEVKKK MDPGFPKLIA DSWNAIPDNL DAVVDLQGGG HSYFFKGAYY LKLENQSLKS VKFGSIKSDW LGCFEQMFTD ALGIDEYGG
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for Mmp2 recombinant protein	Ubiquitous metalloproteinase that is involved in diverse functions such as remodeling of the vasculature, angiogenesis, tissue repair, tumor invasion, inflammation, and atherosclerotic plaque rupture. As well as degrading extracellular matrix proteins, can also act on several nonmatrix proteins such as big endothelial 1 and beta-type CGRP promoting vasoconstriction. Also cleaves KISS at a Gly- -Leu bond. Appears to have a role in myocardial cell death pathways. Contributes to myocardial oxidative stress by regulating the activity of GSK3beta. Cleaves GSK3beta in vitro. Involved in the formation of the fibrovascular tissues. PEX, the C-terminal non-catalytic fragment of MMP2, possesses anti-angiogenic and anti-tumor properties and inhibits cell migration and cell adhesion to FGF2 and vitronectin. Ligand for integrin alpha-v/beta3 on the surface of blood vessels.
References	Homology cloning of rat 72 kDa type IV collagenase cytokine and second-messenger inducibility in glomerular mesangial cells.Marti H.P., McNeil L., Davies M., Martin J., Lovett D.H.Biochem. J. 291:441-446(1993) The cloning of the cDNA encoding rat gelatinase A from a rat skin wound cDNA library.Okada A., Basset P.

NCBI AND UNIPROT INFORMATION

NCBI GI #	146262019
NCBI GeneID	81686
NCBI Accession #	NP_112316.2
NCBI GenBank Nucleotide #	NM_031054.2
UniProt Accession #	P333436; P97581; Q6GMM9
Molecular Weight	64.1 kDa
NCBI Official Full Name	72 kDa type IV collagenase
NCBI Official Synonym Full Names	matrix metallopeptidase 2
NCBI Official Symbol	Mmp2
UniProt Protein Name	72 kDa type IV collagenase
UniProt Gene Name	Mmp2
UniProt Synonym Gene Names	MMP-2
UniProt Entry Name	MMP2_RAT

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/mmp2-recombinant-protein-e-coli-or-yeast-or-baculovirus-or-mammalian-cell/114938>