



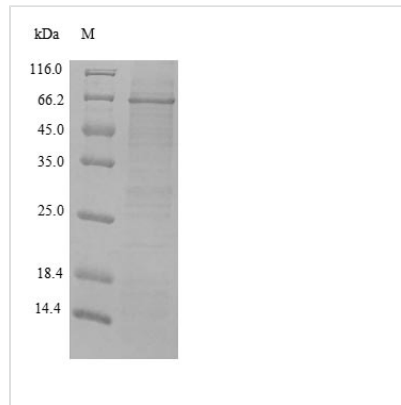
# Recombinant Rat 72 kDa type IV collagenase (Mmp2)

<b>Product Code</b>	CSB-YP014666RA
<b>Relevance</b>	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 domain 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 .
<b>Abbreviation</b>	Recombinant Rat Mmp2 protein
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	P33436
<b>Alias</b>	72 kDa gelatinase; Gelatinase A; Matrix metalloproteinase-2 ;MMP-2
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Rattus norvegicus (Rat)
<b>Purity</b>	≥ 90% as determined by SDS-PAGE.
<b>Sequence</b>	YNFFPRKPKW DKNQITYRIIGYTPDLDPETVDDAFARALKVWSDVTPLRFSRIH DGEADIMINFRWEHGDGY PFDGKDGLLAHAFAPGTGVGGDSHFDDDELWT LGEGQVVRVKYGNADGEYCKFPFLFNGREYSSCTDTGRSDGFLWCSTTYNF EKDGKYGFCPHEALFTMGGNGDGQPCKFPFRFQGTSYNSCTTEGRTDGYR WCGTTEDYDRDKKYGFCPETAMSTVGGNSEGAPCVFPFTFLGNKYESCTSA GRSDGKVVCA TTTNYDDDRKWGFCPDQGYSFLVAAHEFGHAMGLEHSQD PGALMAPIYTYTKNFRLSNDDIKGIQELYGPSPDADTDTGTGPTPTLGPVTPEI CKQDIVFDGIAQIRGEIFFFKDRFIWRTVTPRDKPTGPLLVATFWPELPEKIDAV YEAPQEEKAVFFAGNEYWVYSASTLERGYPKPLTSLGLPPDVQQVDAAFNWS KNKTTYIFSGDKFWRYNEVKKKMDPGFPKLIADSWNAIPDNLDVAVDLQGGG HSYFFKGAYY LKLENQSLKSVKFGSIKSDWLGC
<b>Research Area</b>	Others
<b>Source</b>	Yeast
<b>Target Names</b>	Mmp2
<b>Protein Names</b>	Recommended name: 72 kDa type IV collagenase EC= 3.4.24.24 Alternative



name(s): 72 kDa gelatinase Gelatinase A Matrix metalloproteinase-2 Short name= MMP-2 Cleaved into the following chain: 1. PEX

<b>Expression Region</b>	110-662aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	N-terminal 6xHis-tagged
<b>Mol. Weight</b>	64.1kDa
<b>Protein Length</b>	Full Length of Mature Protein

**Image**


(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

**Reconstitution** We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

**Shelf Life** The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.