



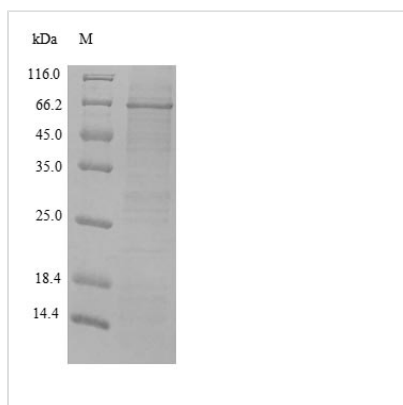
Recombinant Rat 72 kDa type IV collagenase (Mmp2)

Product Code	CSB-YP014666RA
Relevance	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 .
Abbreviation	Recombinant Rat Mmp2 protein
Storage	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.
Uniprot No.	P33436
Alias	72 kDa gelatinase; Gelatinase A; Matrix metalloproteinase-2 ;MMP-2
Product Type	Recombinant Protein
Immunogen Species	Rattus norvegicus (Rat)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	YNFFPRKPKW DKNQITYRIIGYTPDLDPETVDDAFARALKVWSDVTPLRFSRIH DGEADIMINFRWEHGDGY PFDGKDGLLAHAFAPGTG VGGDSHFDDDELWT LGEGQVVRVKYGNADGEYCKFPFLFNGREYSSCTDTGRSDGFLWCSTTYNF EKDGKYGFCPHEALFTMGGNGDGQPCKFPFRFQGTSYNSCTTEGRTDGYR WCGTTEDYDRDKKYGFCPETAMSTVGGNSEGAPCVFPFTFLGNKYESCTSA GRSDGKVWCATTTNYDDDRKWGFCDQGYSLFLVAAHEFGHAMGLEHSQD PGALMAPIYTYTKNFRLSNDDIKGIQELYGPSPDADTDTGTGPTPTLGPVTP EI CKQDIVFDGIAQIRGEIFFFKDRFIWRTVTPRDKPTGPLLVATFWPELPEKIDAV YEAPQEEKAVFFAGNEYWVYSASTLERGYPKPLTSLGLPPDVQQVDAAFNWS KNKKTYIFSGDKFWRYNEVKKKMDPGFPKLIADSWNAIPDNLDAVVDLQGGG HSYFFKGAYY LKLENQSLKSVKFGSIKSDWLGC
Research Area	Others
Source	Yeast
Target Names	Mmp2
Protein Names	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

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