



Recombinant Rat 72 kDa type IV collagenase (Mmp2)

Product Code	CSB-BP014666RA
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
Product Type	Recombinant Protein
Immunogen Species	Rattus norvegicus (Rat)
Purity	>85% (SDS-PAGE)
Sequence	YNFFPRKPKWDKNQITYRIIGYTPDLDPETVDDAFARALKVWSDVTPLRFSRIH DGEADIMINFRWEHGDGYPFDGKDLLAHAFAPGTGVGGDSHFDDDELWT LGEGQVVRVKYGNADGEYCKFPFLFNGREYSSCTDTGRSDGFLWCSTTYNF EKDGKYGFCPHEALFTMGGNGDGQPCFPFRFQGTSYNSCTTEGRTDGYR WCGTTEDYDRDKKYGFCPETAMSTVGGNSEGAPCVFPFTFLGNKYESCTSA GRSDGKVCATTTNYDDDRKWGFCPDQGYSLFLVAAHEFGHAMGLEHSQD PGALMAPIYTYTKNFRLSNDDIKGIQELYGSPDADTDGTGPTPTLGPVTP CKQDIVFDGIAQIRGEIFFFKDRFIWRTVTPRDKPTGPLLVATFWPELPEKIDAV YEAPQEEKAVFFAGNEYWVYSASTLERGYPKPLTSLGLPPDVQQVDAAFNWS KNKKTYIFSGDKFWRYNEVKKKMDPGFPKLIADSWNAIPDNLDAVVDLQGGG HSYFFKGAYYLKLENQSLKSVKFGSIKSDWLGC
Research Area	Others
Source	Baculovirus
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? for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full Length of Mature Protein
Target Details	Proteins of the matrix metalloproteinase (MMP) family are involved in the breakdown of extracellular matrix in normal physiological processes, such as embryonic development, reproduction, and tissue remodeling, as well as in disease processes, such as arthritis and metastasis. Most MMP s are secreted as inactive proproteins which are activated when cleaved by extracellular proteinases. This gene encodes an enzyme which degrades type IV collagen,



the major structural component of basement membranes. The enzyme plays a role in endometrial menstrual breakdown, regulation of vascularization and the inflammatory response. Mutations in this gene have been associated with Winchester syndrome and Nodulosis-Arthropathy-Osteolysis (NAO) syndrome. Two transcript variants encoding different isoforms have been found for this gene.

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

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