



Recombinant Rat Macrophage metalloelastase (Mmp12)

Product Code	CSB-EP717369RA
Abbreviation	Mmp12
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.	Q63341
Product Type	Recombinant Protein
Immunogen Species	Rattus norvegicus (Rat)
Purity	≥85% (SDS-PAGE)
Sequence	RSRWMKRYL TYRIYNYTPD MKRADVDYIF QKAFQVWSDV TPLRFRKIHK GEADITILFA FGDHGDYDF DGKGGTLAHA FYPGPGIQGD AHFDEAETWT KSFQGTNLFL VAVHELGHSL GLRHSNPKS IMYPTYRYLH PNTFRLSADD IHSIQSLYGA PVKNPSLTNP GSPPSTVCHQ SLSFDAVTTV GDKIFFFKDW FFWWRPLPGSP ATNITSISSM WPTIPSGIQA AYEIGGRNQL FLFKDEKYWL INNLVPEPHY PRSIHSLGFP ASVKKIDAAV FDPLRQKVYF FVDKQYWRD VRQELMDAAY PKLISTHFPG IRPKIDAVLY FKRHYIFQG AYQLEYDPLL DRVTKTLSST SWFGC
Source	E.coli
Target Names	Mmp12
Protein Names	Recommended name: Macrophage metalloelastase Short name= MME EC= 3.4.24.65 Alternative name(s): Matrix metalloproteinase-12 Short name= MMP-12
Expression Region	102-465
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C 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. It is thought that This protein is cleaved at both ends to yield the active enzyme, but this processing has not been fully described. The enzyme degrades soluble and insoluble elastin. It may play a role in aneurysm formation and studies in mice suggest a role in the development of emphysema. The gene



is part of a cluster of MMP genes which localize to chromosome 11q22.3.

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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