



Recombinant Rat Matrilysin (Mmp7)

Product Code	CSB-MP014677RA
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.	P50280
Product Type	Recombinant Protein
Immunogen Species	Rattus norvegicus (Rat)
Purity	≥85% (SDS-PAGE)
Sequence	FSLMPNSPKWHSRTVTYRIVSYTTDLPRFLVDQIVKRALRMWSMQIPLNFKRV SWGTDADIIIGFARGDHGDNFPFDGPGNTLGHAFAFGPGLGGDAHFDKDEYWT DGEDSGVNFLFVATHELGHSLGLGHSSVPSSVMYPTYQGDHSEDFSLTKDDI AGIQKLYGKRNL
Research Area	Others
Source	Mammalian cell
Target Names	Mmp7
Protein Names	Recommended name: Matrilysin EC= 3.4.24.23 Alternative name(s): Matrin Matrix metalloproteinase-7 Short name= MMP-7 Pump-1 protease Uterine metalloproteinase
Expression Region	98-267aa
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. The enzyme encoded by this gene degrades proteoglycans, fibronectin, elastin and casein and differs from most MMP family members in that it lacks a conserved C-terminal protein domain. The enzyme is involved in wound healing, and studies in mice suggest that it regulates the activity of defensins in intestinal mucosa. 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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