



# Recombinant Cat Matrilysin (MMP7)

<b>Product Code</b>	CSB-EP014677CA
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P55032
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Felis catus (Cat) (Felis silvestris catus)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	D LPSRNRPKWI SKVVITYRIIS YTRDLPRVTV DHLVAKALNM WSKEIPLSFR RVVLGIPDIV IGFARGAHGD FYPFDGPGGT LAHAYEPGPG LGGDAHFDDED ERWADGRGLG INFLAVATHE LGHSLGLRHS SDPDSVMYPT YGARDSENFK LSPGDIREIQ ELYGKRKSR KK
<b>Source</b>	E.coli
<b>Target Names</b>	MMP7
<b>Protein Names</b>	Recommended name: Matrilysin EC= 3.4.24.23 Alternative name(s): Matr Matrix metalloproteinase-7 Short name= MMP-7 Pump-1 protease Uterine metalloproteinase
<b>Expression Region</b>	90-262
<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>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full Length of Mature Protein
<b>Target Details</b>	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.
<b>Reconstitution</b>	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.
<b>Shelf Life</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.