



# Recombinant Human Matrilysin (MMP7)

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|--------------------------|---|
| <b>Product Code</b>      | CSB-MP014677HU  |
| <b>Storage</b>           | Store at -20°C, for extended storage, conserve at -20°C or -80°C.   |
| <b>Uniprot No.</b>       | P09237  |
| <b>Product Type</b>      | Recombinant Protein   |
| <b>Immunogen Species</b> | Homo sapiens (Human)  |
| <b>Purity</b>            | ≥85% (SDS-PAGE)   |
| <b>Sequence</b>          | YSLFPN SPKWTSKVVV YRIVSYTRDL PHITVDRLVS KALNMWGKEI<br>PLHFRKVVWG TADIMIGFAR GAHGDSYPFD GPGNTLAHAF APGTGLGGDA<br>HFDEDERWTD GSSLGINFLY AATHELGHSL GMGHSSDPNA VMYPTYGNPD<br>PQNFKLSQDD IKGIQKLYGK RSNSRKK   |
| <b>Source</b>            | Mammalian cell  |
| <b>Target Names</b>      | MMP7  |
| <b>Protein Names</b>     | Recommended name: Matrilysin EC= 3.4.24.23 Alternative name(s): Matrin<br>Matrix metalloproteinase-7 Short name= MMP-7 Pump-1 protease Uterine<br>metalloproteinase   |
| <b>Expression Region</b> | 95-267  |
| <b>Notes</b>             | Repeated freezing and thawing is not recommended. Store working aliquots at<br>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<br>breakdown of extracellular matrix in normal physiological processes, such as<br>embryonic development, reproduction, and tissue remodeling, as well as in<br>disease processes, such as arthritis and metastasis. Most MMP s are secreted<br>as inactive proproteins which are activated when cleaved by extracellular<br>proteinases. The enzyme encoded by this gene degrades proteoglycans,<br>fibronectin, elastin and casein and differs from most MMP family members in<br>that it lacks a conserved C-terminal protein domain. The enzyme is involved in<br>wound healing, and studies in mice suggest that it regulates the activity of<br>defensins in intestinal mucosa. The gene is part of a cluster of MMP genes<br>which localize to chromosome 11q22.3. |
| <b>Reconstitution</b>    | We recommend that this vial be briefly centrifuged prior to opening to bring the<br>contents to the bottom. Please reconstitute protein in deionized sterile water to a<br>concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final<br>concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final<br>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,<br>storage temperature and the stability of the protein itself.<br>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.