



# Recombinant Human Interstitial collagenase (MMP1)

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|--------------------------|---|
| <b>Product Code</b>      | CSB-EP014656HU-B  |
| <b>Storage</b>           | Store at -20°C, for extended storage, conserve at -20°C or -80°C.   |
| <b>Uniprot No.</b>       | P03956  |
| <b>Product Type</b>      | Recombinant Protein   |
| <b>Immunogen Species</b> | Homo sapiens (Human)  |
| <b>Purity</b>            | ≥85% (SDS-PAGE)   |
| <b>Sequence</b>          | F VLTEGNPRWE QTHLTYRIEN YTPDLPRADV DHAIEKAFQL WSNVTPLTFT<br>KVSEGGADIM ISFVRGDHRD NSPFDGPGGN LAHAFQPGPG IGGDAHFDDED<br>ERWTNNFREY NLHRVAAHEL GHSLGLSHST DIGALMYPSTY TFSGDVQLAQ<br>DDIDGIQAIY GRSQNPVQPI GPQTPKACDS KLTFDAITTI RGEVMFFKDR<br>FYMRTNPFYF EVELNFISVF WPQLPNGLEA AYEAFADRDEV RFFKGNKYWA<br>VQQQNVLHGY PKDIYSSFGE PRTVKHIDAA LSEENTGKTY FVANKYWRV<br>DEYKRSMDFG YPKMIAHDFP GIGHKVDVAV MKDGGFFYFFH GTRQYKFDPK<br>TKRILTLQKA NSWFNCRKN   |
| <b>Source</b>            | E.coli  |
| <b>Target Names</b>      | MMP1  |
| <b>Protein Names</b>     | Recommended name: Interstitial collagenase EC= 3.4.24.7 Alternative name(s):<br>Fibroblast collagenase Matrix metalloproteinase-1 Short name= MMP-1 Cleaved<br>into the following 2 chains: 1. 22 kDa interstitial collagenase 2. 2   |
| <b>Expression Region</b> | 100-469   |
| <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. This gene encodes a secreted enzyme which breaks down the<br>interstitial collagens, types I, II, and III. The gene is part of a cluster of MMP<br>genes which localize to chromosome 11q22.3. Alternative splicing results in<br>multiple transcript variants. |
| <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   |



concentration of glycerol is 50%. Customers could use it as reference.

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**Shelf Life**

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.