



# Recombinant Bovine Collagenase 3 (MMP13)

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| <b>Product Code</b>      | CSB-EP014660BO  |
| <b>Storage</b>           | Store at -20°C, for extended storage, conserve at -20°C or -80°C.   |
| <b>Uniprot No.</b>       | O77656  |
| <b>Product Type</b>      | Recombinant Protein   |
| <b>Immunogen Species</b> | Bos taurus (Bovine)   |
| <b>Purity</b>            | >85% (SDS-PAGE)   |
| <b>Sequence</b>          | YNVFPRT LKWSKMNLTY RIVNYTPDLT HSEVEKAFRK AFKVWSDVTP<br>LNFTRIHNGT ADIMISFGTK EHGDFYPPFDG PSGLLAHAFP PGPNYGGDAH<br>FDDDETWTSS SKGYNLFLVA AHEFGHSLGL DHSKDPGALM FPIITYTGKS<br>HFMLPDDDQVQ GIQSLYGP GD EDPYSKHPKT PDKCDPSLSL DAITSLRGET<br>LIFKDRFFWR LHPQQVEAEL FLTKSFGPEL PNRIDAAYEH PSHDLIFIR<br>GRKFWALSGY DILEDYPKKI SELGFPKHVK KISAALHFED SGKTLFFSEN<br>QVWSYDDTNH VMDKDYPRLI EEVFPGIGDK VDAVYQKNGY IYFFNGPIQF<br>EYSIWSNRIV RVMTTNSLLW C  |
| <b>Source</b>            | E.coli  |
| <b>Target Names</b>      | MMP13   |
| <b>Protein Names</b>     | Recommended name: Collagenase 3 EC= 3.4.24.- Alternative name(s): Matrix metalloproteinase-13 Short name= MMP-13  |
| <b>Expression Region</b> | 104-471   |
| <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. This protein cleaves type II collagen more efficiently than types I and III. It may be involved in articular cartilage turnover and cartilage pathophysiology associated with osteoarthritis. 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.