Recombinant Pig Interstitial collagenase (MMP1)

Product Code	CSB-YP014656PI
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P21692
Product Type	Recombinant Protein
Immunogen Species	Sus scrofa (Pig)
Purity	≥85% (SDS-PAGE)
Sequence	F VLTPGNPRWE NTHLTYRIEN YTPDLSREDV DRAIEKAFQL WSNVSPLTFT KVSEGQADIM ISFVRGDHRD NSPFDGPGGN LAHAFQPGPG IGGDAHFDED ERWTKNFRDY NLYRVAAHEL GHSLGLSHST DIGALMYPNY IYTGDVQLSQ DDIDGIQAIY GPSENPVQPS GPQTPQVCDS KLTFDAITTL RGELMFFKDR FYMRTNSFYP EVELNFISVF WPQVPNGLQA AYEIADRDEV RFFKGNKYWA VRGQDVLYGY PKDIHRSFGF PSTVKNIDAA VFEEDTGKTY FFVAHECWRY DEYKQSMDTG YPKMIAEEFP GIGNKVDAVF QKDGFLYFFH GTRQYQFDFK TKRILTLQKA NSWFNCRKN
Source	Yeast
Target Names	MMP1
Protein Names	Recommended name: Interstitial collagenase EC= 3.4.24.7 Alternative name(s): Matrix metalloproteinase-1 Short name= MMP-1 Cleaved into the following chain: 1. 18 kDa interstitial collagenase
Expression Region	100-469
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C 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. This gene encodes a secreted enzyme which breaks down the interstitial collagens, types I, II, and III. The gene is part of a cluster of MMP genes which localize to chromosome 11q22.3. Alternative splicing results in multiple transcript variants.
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

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.