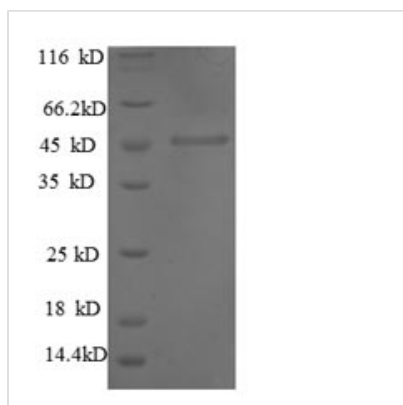


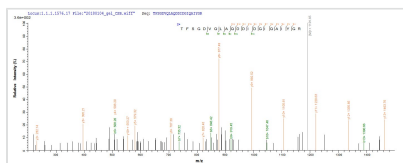


Recombinant Human Interstitial collagenase (MMP1), partial

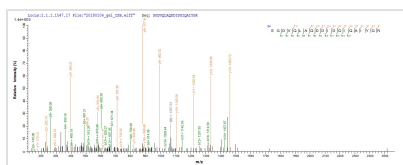
Product Code	CSB-EP014656HU1
Relevance	Cleaves collagens of types I, II, and III at one site in the helical domain. Also cleaves collagens of types VII and X. In case of HIV infection, interacts and cleaves the secreted viral Tat protein, leading to a decrease in neuronal Tat's mediated neurotoxicity.
Abbreviation	Recombinant Human MMP1 protein, partial
Storage	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.
Uniprot No.	P03956
Alias	Fibroblast collagenase;Matrix metalloproteinase-1 ;MMP-1
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	VLTEGNPRWEQTHLT YRIENYTPDLPRADVDHAIEKAFQLWSNVTPLTFTKVS EGQADIMISFVRGDHRD NSPFDGPGGNLAHAFQPGPGIGGDAHFDEDERWT NNFREYNLHRVAAHELGHSLGLSHSTDIGALMYPSTYFSGDVQLAQDDIDGIQ AIYGRSQNPVQPIGPQTPKACDSKLTFDAITIRGEVMFFKDRFYMRNPFYPE VELNFISVFWPQLPNGLEAAYEFADRDEVRFFKGNKYWAVQQGNVLHGYPKD IYSSFGFPRTVKHIDAALSEENTGKTYFFVANKYWRYDEYKRSMDPGYPKMIA HDFPGIGHKVDAVFMKDGFFYFFHGT RQYKFDPKTKRILTLQKANSWFNCRK N
Research Area	Developmental Biology
Source	E.coli
Target Names	MMP1
Expression Region	101-469aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-tagged
Mol. Weight	46.5kDa
Protein Length	Partial
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.



Based on the SEQUEST from database of E.coli host and target protein, the LC-MS/MS Analysis result of CSB-RP070094h could indicate that this peptide derived from E.coli-expressed Homo sapiens (Human) MMP1.



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Description

Discover the potential of our Recombinant Human MMP1 protein in your developmental biology research, and broaden your understanding of its role in extracellular matrix degradation, tissue remodeling, and cell migration. MMP1, also known as interstitial collagenase, is essential for breaking down type I, II, and III collagens, thereby enabling cell movement through collagen-rich environments.

Our Recombinant Human MMP1 protein offers a partial-length sequence (101-469 amino acids) to ensure maximum bioactivity and functionality. Produced in E. coli, this protein features an N-terminal 6xHis-tag, facilitating efficient purification and detection without compromising the protein's native structure or biological activity. With a purity of greater than 90% as determined by SDS-PAGE, our Recombinant Human MMP1 protein guarantees consistent and dependable results to support your research with confidence. Choose from liquid or lyophilized powder forms based on your experimental requirements.

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.