

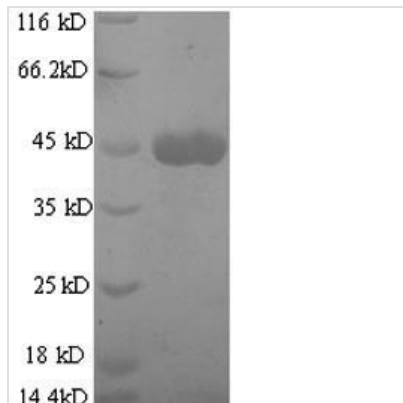


Recombinant Mouse Collagenase 3 (Mmp13)

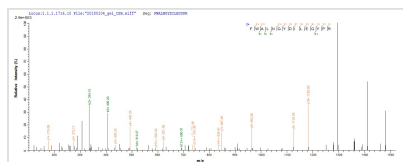
Product Code	CSB-EP014660MO
Relevance	Plays a role in the degradation of Extracellular domain matrix proteins including fibrillar collagen, fibronectin, TNC and ACAN. Cleaves triple helical collagens, including type I, type II and type III collagen, but has the highest activity with soluble type II collagen. Can also degrade collagen type IV, type XIV and type X. May also function by activating or degrading key regulatory proteins, such as TGFB1 and CTGF. Plays a role in wound healing, tissue remodeling, cartilage degradation, bone development, bone mineralization and ossification. Required for normal embryonic bone development and ossification. Plays a role in the healing of bone fractures via endochondral ossification. Plays a role in wound healing, probably by a mechanism that involves proteolytic activation of TGFB1 and degradation of CTGF. Plays a role in keratinocyte migration during wound healing. May play a role in cell migration and in tumor cell invasion.
Abbreviation	Recombinant Mouse Mmp13 protein
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.	P33435
Alias	Matrix metalloproteinase-13 ;MMP-13
Product Type	Recombinant Protein
Immunogen Species	Mus musculus (Mouse)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	YNVFPRTLKWSQTNLTYRIVNYTPDMSHSEVEKAFRKAFKVVWSDVTPLNFTRI YDGTADIMISFGTKEHGDFYPFDGPGSGLLAHAFPPGPNYGGDAHFDDDETWT SSSKGYNLFIVA AHELGHSLGLDHSKDPGALMFPIYTYTGKSHFMLPDDD VQGI QFLYGPGEDEPNPKHPKTPEKCDPALSLDAITSLRGETMIFKDRFFWRLHPQQ VEAELFLTKSFWEPLPNHVDAAYEHPSRDLMFIFRGRKFWALNGYDILEGYPR KISDLGFPKEVKRLSAAVHFENTGKTLFFSENVHVSYYDDVNQTMKDYPRLIE EEFPGIGNKVDVAYEKNGYIYFFNGPIQFEYSIWSNRIVRVMPTNSILWC
Research Area	Others
Source	E.coli
Target Names	Mmp13
Expression Region	105-472aa
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

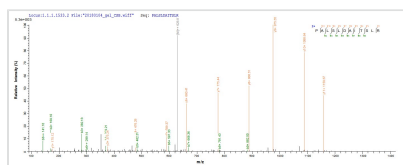
Full Length of Mature Protein

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-RP177394m could indicate that this peptide derived from E.coli-expressed Mus musculus (Mouse) Mmp13.



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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

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