

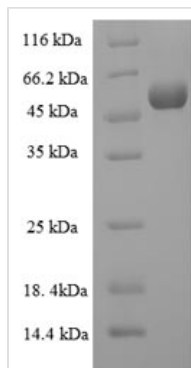


Recombinant Human Collagenase 3(MMP13)

Product Code	CSB-EP014660HU
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.
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.	P45452
Storage Buffer	Tris-based buffer, 50% glycerol
Alias	Matrix metalloproteinase-13 ;MMP-13
Product Type	Recombinant Protein
Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	YNVFPRTLKWSKMNLTYRIVNYTPDMTHSEVEKAFKKAFKVWSDVTPLNFTRL HDGIADIMISFGIKEHGDFYPFDGPSGLLAHAFPPGPNYGGDAHFDDETWT SSKGYNLFLVAAHEFGHSLGLDHSKDPGALMFPIYTYTGKSHFMLPDDDVQGI QSLYGPGEDEPNPKHPKTPDKCDPSLSLDAITSLRGETMIFKDRFFWRLHPQQ VDAELFLTKSFWPELPNRIIDAAAYEHPSHDLIFIRGRKFWALNGYDILEGYPKKI SELGLPKEVKKISA AVHFEDTGKTLFSGNQVWRYDDTNHIMDKDYPRLIEEDF PGIGDKVDAYYEKNGYIYFFNGPIQFEYSIWSNRIVRVMPANSILWC
Lead Time	3-7 business days
Research Area	Developmental Biology
Source	E.coli
Gene Names	MMP13
Expression Region	104-471aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-SUMO-tagged



Mol. Weight	58.3kDa
Protein Description	Full Length of Mature Protein

Image


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