

MMP-13 Protein, Human (His)

Cat. No.:	HY-P701987
Synonyms:	MMP13; Collagenase 3; Matrix metalloproteinase-13; MMP-13
Species:	Human
Source:	E. coli
Accession:	P45452 (E103-N274)
Gene ID:	4322
Molecular Weight:	

PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.22 µm filtered solution of 50 mM Tris-HCl, pH7.5, 200 mM NaCl, 20% glycerol.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	Please use rapid thawing with running water to thaw the protein.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	<p>MMP-13 (Matrix Metalloproteinase 13) emerges as a pivotal player in extracellular matrix modulation, wielding its influence over various proteins such as fibrillar collagen, fibronectin, TNC, and ACAN. It exhibits notable proficiency in cleaving triple helical collagens, particularly type I, type II, and type III, with the highest activity observed with soluble type II collagen. MMP-13's multifaceted role extends beyond matrix degradation; it may also act on key regulatory proteins, including TGFB1 and CCN2, thereby influencing processes such as wound healing, tissue remodeling, cartilage degradation, and bone development. Its indispensability in embryonic bone development and ossification underscores its significance, while its involvement in fracture healing through endochondral ossification highlights its dynamic contributions to physiological processes. Moreover, MMP-13 plays a role in keratinocyte migration during wound healing and is implicated in cell migration and tumor invasion, reflecting its diverse impact on cellular functions.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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