

Recombinant Human matrix metalloproteinase 13 (collagenase 3) Protein, His tagged

Cat. No. MMP13-038H Lot. No. (See product label)

SPECIFICATION

Product Overview The sequence (Accession # 1EUB_A) corresponding to the catalytic domain (aa 104-274 aa) of human MMP-13 was expressed with 6xHis tag in E. coli.

Species Human

Source E.coli

ProteinLength 104-274aa

Description This gene encodes a member of the peptidase M10 family of matrix metalloproteinases (MMPs). Proteins in this 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. The encoded preproprotein is proteolytically processed to generate the mature protease. This protease cleaves type II collagen more efficiently than types I and III. It may be involved in articular cartilage turnover and cartilage pathophysiology associated with osteoarthritis. Mutations in this gene are associated with metaphyseal anadysplasia. This gene is part of a cluster of MMP genes on chromosome 11.

Tag 6xHis

Form Solution

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Molecular Mass	20,4 kDa
Purity	≥95% by SDS-PAGE
Applications	FRET; Protease activity
Usage	Research use
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	10 µg/ml
Storage Buffer	0.1M Tris, pH 7.5, 0.1M NaCl, 10 mM CaCl ₂ , 0.05% Brij 35, 2mM sodium azide, 1 mg/mL BSA.
References	1. Freije, J. et al. J. Biol .Chem. 269, 16766 (1994).

GENE INFORMATION

Gene Name	MMP13 matrix metalloproteinase 13 (collagenase 3) [Homo sapiens (human)]
Official Symbol	MMP13
Synonyms	MMP13; matrix metalloproteinase 13 (collagenase 3); matrix metalloproteinase 13 (collagenase 3); collagenase 3; CLG3; MMP-13; MANDP1
Gene ID	4322
mRNA Refseq	NM_002427
Protein Refseq	NP_002418

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MIM	600108
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UniProt ID	P45452
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