

Recombinant Full Length Human MMP13 Protein, GST-tagged

Cat. No. MMP13-6454HF Lot. No. (See product label)

SPECIFICATION

Product Overview	Human MMP13 full-length ORF (BAG37740.1, 1 a.a. - 471 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	471 amino acids
Description	<p>Proteins of the matrix metalloproteinase (MMP) 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. Most MMPs are secreted as inactive proproteins which are activated when cleaved by extracellular proteinases. The protein encoded by this gene 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. The gene is part of a cluster of MMP genes which localize to chromosome 11q22.3. [provided by RefSeq]</p>
Molecular Mass	78.21 kDa
AA Sequence	<p>MHPGVLA AFLFLSWTHCRALPLPSGGDEDDLSEEDLQFAERYLRSYYHPTNLAGILK ENAASSMTERLREMQSFFGLEVTGKLDNTLDVMKKPRCGVPDVGEYNVFPRTLK WSKMNLTYRIVNYTPDMTHSEVEKAFKAFKVVSGVTPLNFTRLHDGIADIMISFGIK EHGDFYPFDGPGSGLLAHAFAFP GPNYGGDAHFDDDETWTSSSKGYNLFLVAAHEFG</p>

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HSLGLDHSKDPGALMFPIYTYTGKSHFMLPDDDVQGIQSLYGPGEDEPNPKHPKTP
 DKCDPSLSLDAITSLRGETMIFKDRFFWRLHPQQVDAELFLTKSFWPELPNRIDAAY
 EHPSHDLIFRGRKFWALNGYDILEGYPKKISELGLPKEVKKISA AVHFEDTGKTL LF
 SGNQVWRYDDTNHIMDKDYPR LIEEDFP GIGDKVDAVYEKNGYIYFFNGPIQFEYSI
 WSNRIVRVMPANSILWC

Applications
 Enzyme-linked Immunoabsorbent Assay
 Western Blot (Recombinant protein)
 Antibody Production
 Protein Array

Notes
 Best use within three months from the date of receipt of this protein.

Storage
 Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer
 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name
 MMP13 matrix metalloproteinase 13 (collagenase 3) [Homo sapiens]

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
UniProt ID	P45452

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