

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	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]
Molecular Mass	78.21 kDa
AA Sequence	MHPGVLA AFLFLSWTHCRALPLPSGGDEDDLSEEDLQFAERYLRSYYHPTNLAGILK ENAASSMTERLREMQSFFGLEVTGKLDDNTLDVMKKPRCGVPDVGEYNVFPRTLK WSKMNLTYRIVNYTPDMTHSEVEKAFKKAFKVWSGVTPLNFTRLHDGIADIMISFGIK EHGDFYPFDGPSGLLAHAFAFPGPNYGGDAHFDDDETWTSSSKGYNLFLVAAHEFG

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HSLGLDHSKDPGALMFPIYTYTGKSHFMLPDDDVQGIQSLYGPGEDEPNPKHPKTP
DKCDPSLSLDAITSLRGETMIFKDRFFWRLHPQQVDAELFTKSFWEPLPNRIDAAY
EHPSHDLIFIRGRKFWALNGYDILEGYPPKISELGLPKEVKKISA 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
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UniProt ID	P45452
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