

Product datasheet for TP324156M

MMP13 (NM_002427) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of Human matrix metalloproteinase 13 (collagenase 3) (MMP13), full length, 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC224156 representing NM_002427 Red=Cloning site Green=Tags(s)

MHPGVLA AFLFLSWTHCRALPLPSGGDEDDLSEEDLQFAERYLRSYYHPTNLAGILKENAASSMTERLRE
MQSFFGLEVTGKLDNTLDVMKKPRCGVPDVGGEYNVFPRTLKWSKMNLTYRIVNYTPDMTHSEVEKAFKK
AFKVVSDVTPLNFRHLHDGIADIMISFGIKEHGDFYPFDGPGSLLAHAFPPGPNYGGDAHFDDETWTSS
SKGYNLFLVAAHEFGHSLGLDHSKDPGALMFPIYTYTGKSHFMLPDDDDVQGIQSLYGPGEDEPNPKHPKT
PDKCDPSLSLDAITSLRGETMIFKDRFFWRLHPQQVDAELFLTKSFWPELPNRIDAAAYEHPSHDLIFIR
GRKFWALNGYDILEGYPKKISELGLPKEVKKISA AVHFEDTGKTLLEFSGNQVWRYDDTNHIMDKDYPRLI
EEDFPGIGDKVDAVYEKNGYIYFFNGPIQFEYSIWSNRIVRVM PANSILWC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	53.82 kDa
Concentration:	>0.05 µg/µL as determined by microplate Bradford method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris.HCl, pH7.3, 100 mM glycine, 10% glycerol
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for at least 1 year from receipt of products under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_002418
Locus ID:	4322
UniProt ID:	P45452 , Q53H33
RefSeq Size:	2722



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Cytogenetics:	11q22.2
RefSeq ORF:	1413
Synonyms:	CLG3; MANDP1; MDST; MMP-13
Summary:	<p>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. [provided by RefSeq, Jan 2016]</p>
Protein Families:	Druggable Genome, Protease