

Product datasheet for **TP302460L**

MMP1 (NM_002421) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Recombinant protein of human matrix metalloproteinase 1 (interstitial collagenase) (MMP1), transcript variant 1, 1 mg

Species: Human

Expression Host: HEK293T

Expression cDNA Clone or AA Sequence: >RC202460 protein sequence
Red=Cloning site **Green**=Tags(s)

MHSFPPLLLLLFWGVVSHSFPATLETQEQDVLVQKYLEKYYNLKNDGRQVEKRRNSGPVWEKQMQEF
FGLKVTGKPAETLKVMKQPRCGVPDVAQFVLTEGNPRWEQTHLYRIENYTPDLPRADVDAIEKAFQL
WSNVTPLTFTKVSEGQADIMISFVRGDHRDNSPFDGPGGNLAHAFQPGPGIGGDAHFEDERWTNNFREY
NLHRVAAHELGHSLGLSHSTDIGALMYPSTYFSGDVQLAQDDIDGIQAIYGRSQNPVQPIGPQTPKACDS
KLTFDAITIRGEVMFFKDRFYMRTNPFYPEVELNFISVFWPQLPNGLEAAYEFADRDEVRFKGNKYWA
VQGQNVLHGYPKDIYSSFGFPRTVKHIDAALSEENTGKTYFFVANKYWRYDEYKRSMDPGYPKMIHDFP
GIGHKVDVAFMKDGGFFYFFHGTRQYKFDPKTKRILTQKANSWFNCRKN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

Predicted MW: 51.8 kDa

Concentration: >0.05 µg/µL as determined by microplate BCA method

Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

Preparation: Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

Note: For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

Storage: Store at -80°C.

Stability: Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.



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RefSeq: [NP_002412](#)

Locus ID: 4312

UniProt ID: [P03956](#), [Q53G95](#)

RefSeq Size: 2081

Cytogenetics: 11q22.2

RefSeq ORF: 1407

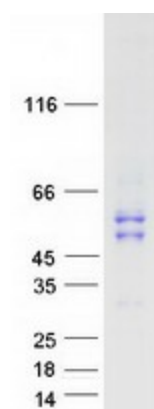
Synonyms: CLG; CLGN

Summary: 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 secreted protease breaks down the interstitial collagens, including types I, II, and III. The gene is part of a cluster of MMP genes on chromosome 11. Mutations in this gene are associated with chronic obstructive pulmonary disease (COPD). Alternative splicing results in multiple transcript variants, at least one of which encodes an isoform that is proteolytically processed. [provided by RefSeq, Jan 2016]

Protein Families: Druggable Genome, Protease, Secreted Protein

Protein Pathways: Bladder cancer, Pathways in cancer, PPAR signaling pathway

Product images:



Coomassie blue staining of purified MMP1 protein (Cat# [TP302460]). The protein was produced from HEK293T cells transfected with MMP1 cDNA clone (Cat# [RC202460]) using MegaTran 2.0 (Cat# [TT210002]).