

Product datasheet for TP723882

OriGene Technologies, Inc.

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MMP1 (NM_002421) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Purified recombinant protein of Human matrix metallopeptidase 1 (interstitial collagenase)

(MMP1), transcript variant 1

Species: Human Expression Host: HEK293

Expression cDNA Clone

or AA Sequence:

Human MMP-1, the region of Phe20-Asn469, from gene Accession# NM_002421

Tag: N-His
Predicted MW: 54 kDa

Concentration: lot specific

Purity: >90%, as determined by Coomassie stained SDS-PAGE.

Buffer: 25 mM TRIS, 10 mM CaCl2, 150 mM NaCl, pH 7.5

Bioactivity: Human MMP-1 cleaves the peptide substrate Mca-KPLGL-Dpa-AR-NH2 with an activity above

200 pmol/min/µg.

Endotoxin: Less than 1.0 EU per µg of protein as determine by the LAL method

Storage: Store at -80°C.

Stability: Unopened vial can be stored between 2°C and 8°C for up to 2 weeks, at -20°C for up to 6

months, or at -70°C or below until the expiration date. Aliquots can be stored between 2°C and 8°C for up to one week and stored at -20°C or colder for up to 3 months. Avoid repeated

freeze/thaw cycles.

2081

RefSeq: NP 002412

Locus ID: 4312

RefSeg Size:

UniProt ID: P03956

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:

