

## Recombinant Human MMP1 Protein, His-tagged

Cat. No. MMP1-568H Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant Human MMP1, transcript variant 1, fused with His tag at N-terminal was expressed in E. coli.

**Species** Human

**Source** E.coli

**ProteinLength** 20-469 aa

**Description** 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.

**Form** 25mM Tris, pH8.0, 150 mM NaCl, 10% glycerol, 1 % Sarkosyl. Store at -80C. Avoid repeated freeze-thaw cycles. Stable for at least 3 months from receipt of products under proper storage and handling conditions.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Molecular Mass</b>	51.8 kDa
<b>Purity</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Concentration</b>	>50 ug/mL as determined by microplate BCA method

## GENE INFORMATION

<b>Gene Name</b>	MMP1 matrix metallopeptidase 1 (interstitial collagenase) [ Homo sapiens ]
<b>Official Symbol</b>	MMP1
<b>Synonyms</b>	MMP1; matrix metallopeptidase 1 (interstitial collagenase); CLG, matrix metalloproteinase 1 (interstitial collagenase); interstitial collagenase; fibroblast collagenase; matrix metalloprotease 1; matrix metalloproteinase 1; CLG; CLGN;
<b>Gene ID</b>	4312
<b>mRNA Refseq</b>	NM_002421
<b>Protein Refseq</b>	NP_002412
<b>MIM</b>	120353
<b>UniProt ID</b>	P03956

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA