

# Recombinant Human matrix metallopeptidase 1 Protein, Flag tagged

Cat. No. MMP1-245H Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant human MMP1 protein (P03956) (Phe 20-Asn 469) with a Flag tag at the C-terminus was expressed in HEK293.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>ProteinLength</b>	20-469aa
<b>Description</b>	MMP-1 has an archetypal structure consisting of a pre-domain, a pro-domain, a catalytic domain, a linker region and a hemopexin-like domain. Two main nomenclatures for the primary structure are currently in use, the original one from which the first amino-acid starts with the signalling peptide and a second one where the first amino-acid starts counting from the prodomain (proenzyme nomenclature). MMPs 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. Specifically, MMP-1 breaks down the interstitial collagens, types I, II, and III. Mechanical force may increase the expression of MMP1 in human periodontal ligament cells.
<b>Tag</b>	C-Flag
<b>Molecular Mass</b>	53.5 kDa

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<b>Endotoxin</b>	Less than 1.0 EU/μg by the LAL method.
<b>Purity</b>	>95% as determined by SDS-PAGE.
<b>Storage</b>	Please avoid repeated freeze-thaw cycles. Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade. It is recommended that aliquot the reconstituted solution to minimize freeze-thaw cycles.
<b>Storage Buffer</b>	Lyophilized from a 0.2 μm filtered solution of PBS, pH7.4, 5% Trehalose, 5% mannitol.
<b>Reconstitution</b>	Reconstitute at 250 μg/mL in sterile water.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">MMP1 matrix metalloproteinase 1 [ Homo sapiens (human) ]</a>
<b>Official Symbol</b>	<a href="#">MMP1</a>
<b>Synonyms</b>	MMP1; matrix metalloproteinase 1 (interstitial collagenase); CLG, matrix metalloproteinase 1 (interstitial collagenase); interstitial collagenase; fibroblast collagenase; matrix metalloproteinase 1; matrix metalloproteinase 1; CLG; CLGN;
<b>Gene ID</b>	<a href="#">4312</a>
<b>mRNA Refseq</b>	<a href="#">NM_001145938</a>
<b>Protein Refseq</b>	<a href="#">NP_001139410</a>
<b>MIM</b>	<a href="#">120353</a>

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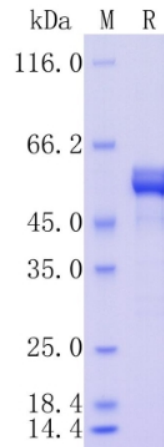
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UniProt ID

P03956

**Protein on SDS-PAGE under reducing (R) condition.**



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