

Recombinant Human matrix metalloproteinase 12 Protein, Flag tagged

Cat. No. MMP12-221H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human MMP12 protein (P39900) (Ala 280-Cys 470) with a Flag tag at the C-terminus was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	280-470aa
Description	The matrix metalloproteinases (MMP) are a family of peptidase enzymes responsible for the degradation of extracellular matrix components, including collagen, gelatin, fibronectin, laminin and proteoglycan. Transcription of MMP genes is differentially activated by phorbol ester, lipopolysaccharide (LPS) or staphylococcal enterotoxin B (SEB). MMP catalysis requires both calcium and zinc. MMP-12 (also designated macrophage metalloelastase) is produced in alveolar macrophages and degrades elastin. MMP-12 may contribute to elastin degradation occurring in granulomatous skin diseases and may also participate in macrophage migration through the epidermal and vascular basement membranes in inflammatory disorders.
Tag	C-Flag
Molecular Mass	24.4 kDa
Endotoxin	Less than 1.0 EU/μg by the LAL method.

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Purity	>95% as determined by SDS-PAGE.
Storage	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.
Storage Buffer	Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4, 5% Trehalose, 5% mannitol.
Reconstitution	Reconstitute at 250 µg/mL in sterile water.

GENE INFORMATION

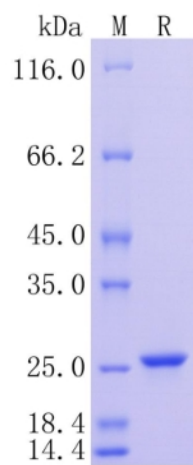
Gene Name	MMP12 matrix metalloproteinase 12 [Homo sapiens (human)]
Official Symbol	MMP12
Synonyms	MMP12; matrix metalloproteinase 12 (macrophage elastase); matrix metalloproteinase 12 (macrophage elastase); macrophage metalloelastase; HME; macrophage elastase; matrix metalloproteinase-12; ME; MME; MMP-12; MGC138506;
Gene ID	4321
mRNA Refseq	NM_002426
Protein Refseq	NP_002417
MIM	601046
UniProt ID	P39900

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



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