

## Active Recombinant Human MMP12

Cat. No. MMP12-157H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human MMP12 (NP_002417.2) (Gly106-Asn268), fused with a N-terminal Met, was expressed in E.coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	106-268 a.a.
<b>Predicted N Terminal</b>	Met
<b>Form</b>	Lyophilized from sterile 10 mM Hepes, 2 mM CaCl <sub>2</sub> , 250 mM NaCl, pH 7.0, 5 % trehalose and mannitol are added as protectants before lyophilization.
<b>Bio-activity</b>	Measured by its ability to cleave the fluorogenic peptide substrate, Mca-PLGL-Dpa-AR-NH <sub>2</sub> . The specific activity is > 800 pmoles/min/g.
<b>Molecular Mass</b>	The recombinant human MMP12 consists of 164 amino acids and predicts a molecular mass of 18.2 KDa. It migrates as an approximately 18 KDa band in SDS-PAGE under reducing conditions.
<b>Endotoxin</b>	Please contact us for more information.
<b>Purity</b>	> 90 % as determined by SDS-PAGE.

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<b>Stability</b>	Samples are stable for up to twelve months from date of receipt at -70°C.
<b>Storage</b>	Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	MMP12 matrix metalloproteinase 12 (macrophage elastase) [ Homo sapiens (human) ]
<b>Official Symbol</b>	MMP12
<b>Synonyms</b>	MMP12; matrix metalloproteinase 12 (macrophage elastase); HME; MME; MGC138506; MMP-12; ME; macrophage elastase; macrophage metalloelastase; EC 3.4.24.65; Matrix metalloproteinase-12; matrix metalloproteinase 12; Macrophage elastase; matrix metalloproteinase 12 (macrophage elastase)
<b>Gene ID</b>	4321
<b>mRNA Refseq</b>	NM_002426
<b>Protein Refseq</b>	NP_002417
<b>MIM</b>	601046
<b>UniProt ID</b>	P39900
<b>Chromosome Location</b>	11q22.3
<b>Pathway</b>	Matrix Metalloproteinases
<b>Function</b>	calcium ion binding; metalloendopeptidase activity; peptidase activity; zinc ion

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