

Active Recombinant Human MMP12

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

SPECIFICATION

Product Overview	Recombinant Human MMP12 (NP_002417.2) (Gly106-Asn268), fused with a N-terminal Met, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	106-268 a.a.
Predicted N Terminal	Met
Form	Lyophilized from sterile 10 mM Hepes, 2 mM CaCl ₂ , 250 mM NaCl, pH 7.0, 5 % trehalose and mannitol are added as protectants before lyophilization.
Bio-activity	Measured by its ability to cleave the fluorogenic peptide substrate, Mca-PLGL-Dpa-AR-NH ₂ . The specific activity is > 800 pmoles/min/g.
Molecular Mass	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.
Endotoxin	Please contact us for more information.
Purity	> 90 % as determined by SDS-PAGE.

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Stability	Samples are stable for up to twelve months from date of receipt at -70°C.
Storage	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.
GENE INFORMATION	
Gene Name	MMP12 matrix metalloproteinase 12 (macrophage elastase) [Homo sapiens (human)]
Official Symbol	MMP12
Synonyms	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)
Gene ID	4321
mRNA Refseq	NM_002426
Protein Refseq	NP_002417
MIM	601046
UniProt ID	P39900
Chromosome Location	11q22.3
Pathway	Matrix Metalloproteinases
Function	calcium ion binding; metalloendopeptidase activity; peptidase activity; zinc ion

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binding; endopeptidase activity

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