

MMP-12 Protein, Human

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| Cat. No.: | HY-P74744 |
| Synonyms: | Macrophage metalloelastase; MME; MMP-12; HME |
| Species: | Human |
| Source: | E. coli |
| Accession: | P39900 (G106-N268) |
| Gene ID: | 4321 |
| Molecular Weight: | Approximately 18 kDa |

PROPERTIES

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| Biological Activity | Measured by its ability to cleave the fluorogenic peptide substrate, Mca-PLGL-Dpa-AR-NH ₂ and the specific activity is > 800 pmoles/min/μg. |
| Appearance | Lyophilized powder. |
| Formulation | Lyophilized from a 0.2 μm filtered solution of 10 mM Hepes, 2 mM CaCl ₂ , 250 mM NaCl, pH 7.0. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. |
| Endotoxin Level | <1 EU/μg, determined by LAL method. |
| Reconstitution | It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O. |
| Storage & Stability | Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage. |
| Shipping | Room temperature in continental US; may vary elsewhere. |

DESCRIPTION

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| Background | The MMP-12 protein is potentially involved in tissue injury and remodeling and possesses notable elastolytic activity. It demonstrates the ability to accept both large and small amino acids at the P1' site, although it exhibits a preference for leucine. At the P1 site, it favors aromatic or hydrophobic residues, with a preference for small hydrophobic residues like alanine in the P3 position. |
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Caution: Product has not been fully validated for medical applications. For research use only.

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