

Human MMP-7, Tag Free Protein

HA210989



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| Product name: | Human MMP-7, Tag Free |
| Species reactivity: | Human |
| Bio-Activity: | Testing in progress. |
| Protein construction description: | A DNA sequence encoding the human MMP-7 protein (P09237) (Leu 18-Lys 267) was expressed with tag free. |

Background: This gene encodes a member of the peptidase M10 family of matrix metalloproteinases (MMPs). Proteins in this family 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. The encoded preproprotein is proteolytically processed to generate the mature protease. This secreted protease breaks down proteoglycans, fibronectin, elastin and casein and differs from most MMP family members in that it lacks a conserved C-terminal hemopexin domain. The enzyme is involved in wound healing, and studies in mice suggest that it regulates the activity of defensins in intestinal mucosa. The gene is part of a cluster of MMP genes on chromosome 11. This gene exhibits elevated expression levels in multiple human cancers.

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| Purity: | >90% as determined by SDS-PAGE. |
| Endotoxin: | Less than 1.0 EU per µg by the LAL method. |
| Fragment region: | MMP-7 (18-267) |
| Source: | HEK293 |
| Accession: | P09237 |
| Predicted molecular mass: | 29.5 kD |
| Formulation: | Lyophilized from a 0.2 µm filtered solution of 10mM HEPES pH 7.4, 5mM CaCl ₂ , 150mM NaCl, 5% Trehalose, 5% mannitol. |
| Reconstitution: | Reconstitute at 250 µg/ml in sterile water. |
| Storage: | Please avoid repeated freeze-thaw cycles. Samples are stable for up to twelve months from date of receipt at -20°C to -80°C. It is recommended that aliquot the reconstituted solution to minimize freeze-thaw cycles. |

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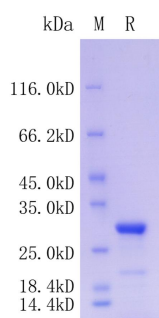


Fig1: Protein on SDS-PAGE under reducing (R) condition.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".