

## Recombinant Human MMP7 Protein (Met1-Lys276), C-His tagged, Animal-free, Carrier-free

**Cat. No.** MMP7-222H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human MMP7 Protein (Met1-Lys276) with C-His tag was expressed in E. coli and Animal-free as well as Carrier-free.                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>ProteinLength</b>    | Met1-Lys276                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Description</b>      | Matrix metalloproteinase-7 proenzyme (proMMP-7) is a 30.47 kDa matrix metalloproteinases with 273 amino acid residues. MMP-7 restricted production by normal mucosal and exocrine gland epithelial cells, as well as by carcinoma cells. Functionally, it involved breakdown of extracellular matrix (casein, gelatins of types I, III, IV, and V, and fibronectin) in normal physiological processes and disease processes. MMP-7 is contributed to early tumor development during carcinogenesis. proMMP7 activation by trypsin occurs via an intermediate cleaved at Lys50-Asn51. |
| <b>Form</b>             | Lyophilized                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Molecular Mass</b>   | The protein has a calculated MW of 30.47 kDa.<br>The protein migrates as 26 kDa under reducing condition (SDS-PAGE analysis).                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Endotoxin</b>        | < 0.1 EU/μg of the protein by the LAL method.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

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|                       |                                                                                                                                                                                                                                                                  |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>         | >95% as determined by SDS-PAGE analysis.                                                                                                                                                                                                                         |
| <b>Storage</b>        | <p>This product is stable after storage at:</p> <p>-20 centigrade for 12 months in lyophilized state from date of receipt.</p> <p>-20 or -80 centigrade for 1 month under sterile conditions after reconstitution.</p> <p>Avoid repeated freeze/thaw cycles.</p> |
| <b>Storage Buffer</b> | Lyophilized from a 0.2 µm filtered solution of PBS, pH 8.0.                                                                                                                                                                                                      |
| <b>Reconstitution</b> | It is recommended to reconstitute the lyophilized protein in sterile H2O to a concentration not less than 200 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.                                                       |
| <b>Shipping</b>       | The product is shipped with polar packs. Upon receipt, store it immediately at -20 centigrade or lower for long term storage.                                                                                                                                    |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                                                                   |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | <b>MMP7 matrix metalloproteinase 7 (matrilysin, uterine) [ Homo sapiens (human) ]</b>                                                                                                                                                                                                                             |
| <b>Official Symbol</b> | <b>MMP7</b>                                                                                                                                                                                                                                                                                                       |
| <b>Synonyms</b>        | MMP7; matrix metalloproteinase 7 (matrilysin, uterine); matrix metalloproteinase 7 (matrilysin, uterine) , MPSL1; matrilysin; PUMP 1; matrin; pump-1 protease; uterine matrilysin; uterine metalloproteinase; matrix metalloproteinase-7; matrix metalloproteinase 7 (matrilysin, uterine); MMP-7; MPSL1; PUMP-1; |
| <b>Gene ID</b>         | <b>4316</b>                                                                                                                                                                                                                                                                                                       |
| <b>mRNA Refseq</b>     | <b>NM_002423</b>                                                                                                                                                                                                                                                                                                  |

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**Protein Refseq** NP\_002414

**MIM** 178990

**UniProt ID** P09237

**SDS-PAGE analysis  
of recombinant  
human MMP7  
(proenzyme).**

kDa

75

63

48

35

25

17



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