

# Recombinant Rat Mmp8 Protein, His&SUMO-tagged

**Cat. No.** Mmp8-1127R    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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| <b>Product Overview</b> | Recombinant Rat Mmp8 Protein (Leu102-Pro466) with His&SUMO tag was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Species</b>          | Rat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>ProteinLength</b>    | Leu102-Pro466                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Description</b>      | Enables calcium ion binding activity; metallopeptidase activity; and zinc ion binding activity. Involved in several processes, including positive regulation of neuroinflammatory response; positive regulation of nitric oxide biosynthetic process; and positive regulation of tumor necrosis factor production. Located in extracellular space. Biomarker of congestive heart failure. Human ortholog(s) of this gene implicated in breast cancer and carotid artery disease. Orthologous to human MMP8 (matrix metallopeptidase 8). |
| <b>Form</b>             | Freeze-dried powder                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Molecular Mass</b>   | Predicted Molecular Mass: 55.3 kDa; Accurate Molecular Mass: 60 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Purity</b>           | > 90%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Applications</b>     | Positive Control; Immunogen; SDS-PAGE; WB.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Stability</b>      | The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition. |
| <b>Storage</b>        | Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.                                                                                                                                                                                                                 |
| <b>Storage Buffer</b> | PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.                                                                                                                                                                                                                                                                      |
| <b>Reconstitution</b> | Reconstitute in PBS or others.                                                                                                                                                                                                                                                                                                               |

## GENE INFORMATION

|                        |                                                                                                                      |
|------------------------|----------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | Mmp8 matrix metalloproteinase 8 [ Rattus norvegicus (Norway rat) ]                                                   |
| <b>Official Symbol</b> | Mmp8                                                                                                                 |
| <b>Synonyms</b>        | MMP8; matrix metalloproteinase 8; neutrophil collagenase; MMP-8; neutrophil collagenase; matrix metalloproteinase-8; |
| <b>Gene ID</b>         | 63849                                                                                                                |
| <b>mRNA Refseq</b>     | NM_022221                                                                                                            |
| <b>Protein Refseq</b>  | NP_071557                                                                                                            |
| <b>UniProt ID</b>      | O88766                                                                                                               |

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