

# Recombinant Mouse Mast cell protease 4(Mcpt4)

Catalog No: #AP71026

Package Size: #AP71026-1 20ug #AP71026-2 100ug #AP71026-3 1mg

## Description

|                       |                                                                                                                                                                                                                                                                                                                                                                                                 |
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| Product Name          | Recombinant Mouse Mast cell protease 4(Mcpt4)                                                                                                                                                                                                                                                                                                                                                   |
| Host Species          | E.coli                                                                                                                                                                                                                                                                                                                                                                                          |
| Purification          | Greater than 90% as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                     |
| Immunogen Description | Expression Region:21-246aaSequence Info:Full Length                                                                                                                                                                                                                                                                                                                                             |
| Other Names           | MSMCPMyonase;Serosal mast cell protease                                                                                                                                                                                                                                                                                                                                                         |
| Accession No.         | P21812                                                                                                                                                                                                                                                                                                                                                                                          |
| Calculated MW         | 29.1 kDa                                                                                                                                                                                                                                                                                                                                                                                        |
| Tag Info              | N-terminal 6xHis-tagged                                                                                                                                                                                                                                                                                                                                                                         |
| Target Sequence       | IIGGVESRPHSRPYMAHLEITTERGFTATCGGFLITRQFVMTAAHCSGREITVTLG AHDVSKTESTQQKIKVEKQ<br>IVHPKYNFYSNLHDIMLLKLQKKAKETPSVNVIPRP SDFIKPGKMCRAAGWGRTGVTEPTSDTLREVKL RIM<br>DKEACKNYWHYDYNLQVCVGS PRKKRSAYKGD SGGPLL CAGVAHGIVSYGRGDAKPPAVFTRISSYVPWIN<br>RVIKGE                                                                                                                                              |
| Formulation           | Tris-based buffer50% glycerol                                                                                                                                                                                                                                                                                                                                                                   |
| Storage               | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.<br><br>Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week. |

## Background

Has chymotrypsin-like activity. Hydrolyzes the amide bonds of synthetic substrates having Tyr and Phe residues at the P1 position. Preferentially hydrolyzes the 'Tyr-4-|-Ile-5' bond of angiotensin I and the 'Phe-20-|-Ala-21' bond of amyloid beta-protein, and is less active towards the 'Phe-8-|-His-9' bond of angiotensin I and the 'Phe-4-|-Ala-5' and 'Tyr-10-|-Glu-11' bonds of amyloid beta-protein. Involved in thrombin regulation and fibronectin processing.

## References

The chymase, mouse mast cell protease 4, constitutes the major chymotrypsin-like activity in peritoneum and ear tissue. A role for mouse mast cell protease 4 in thrombin regulation and fibronectin turnover.Tchougounova E., Pejler G., Abrink M.J. Exp. Med. 198:423-431(2003) Research Topic:Others

Note: This product is for in vitro research use only and is not intended for use in humans or animals.