

## Mcpt4 Protein, Mouse, Recombinant (E. coli, His)

### General Information

Synonyms:	MSMCP;Mast cell protease 4;Mcpt4;Serosal mast cell protease;Myonase;mMCP-4
Protein Construction:	21-246 aa
Species:	Mouse
Expression Host:	E. coli
Accession:	P21812
Molecular Weight:	29.1 kDa (predicted)
AA Sequence:	IIGGVESRPHSRPYMAHLEITTERGFTATCGGFLITRQFVMTAAHCSGREITVTLGAHDVSKTESTQQKIKVEKQI VHPKYNFYNSLHDIMLLKLQKKAKETPSVNVIPLEPRPSDFIKPGKMCRAAGWGRTGVTEPTSDTLREVKLRIM DKEACKNYWHYDYNLQVCVGSPPRKKRSAYKGDSSGPLLCAVAHGIVSYGRGDAKPPAVFTRISSYVPWIN RVIKGE

### QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

### Preparation and Storage

#### Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

#### Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein 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.

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