

# Recombinant Mouse Calpain-1 catalytic subunit(Capn1)

Catalog No: #AP70113

Package Size: #AP70113-1 20ug #AP70113-2 100ug #AP70113-3 1mg

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## Description

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| Product Name          | Recombinant Mouse Calpain-1 catalytic subunit(Capn1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Host Species          | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Purification          | Greater than 90% as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Immunogen Description | Expression Region:1-713aaSequence Info:Full Length                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Other Names           | Calcium-activated neutral proteinase 1 ;CANP 1;Calpain mu-type;Calpain-1 large subunit;Micromolar-calpain ;muCANP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Accession No.         | O35350                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Calculated MW         | 86.1 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Tag Info              | N-terminal 6xHis-tagged                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Target Sequence       | MTEELITPVYCTGVSAQVQKKRDKELGLGRHENAIKYLGGDYETLRARCLQSGVLFQDEAFPPVSHSLGFKEL<br>GPHSSKTYGIKWKRPTELMSNPQFIVDGATRTDICQGALGDCWLLAAIASLTNETILHRVVPYQGQSFQDGYA<br>GIFHFQLWQFGEWVDVVIDDLPTKDGKLVFVHSAQGNFWSALLEKAYAKVNGSYEALSGGCTSEAFEDFT<br>GGVTEWYDLQKAPSDLYQILKALERGSLGCSINISDIRDLEAITFKNLVRGHAYSVTGAKQVTYQGQVRNLIR<br>MRNPWGEVEWKGPWSDSSYEWNKVDPYEREQLRVKMEDGEFWMSFRDFIREFTKLEICNLTPDALKSRTLRL<br>NWNNTTFYEGTWRRGSTAGGCRNYPATFWVNPQFKIRLEEVDADDYDNRESGCSFLLALMQKHRRRRERF<br>GRDMETIGFAVYQVPRELAGQPVHLKRDFFLANASRAQSEHFNLREVSNRIRLPPGEYIVVPSTFEPNKEGDF<br>LLRFFSEKKAGTQELDDQIQANLPDEKVLSEEEIDDNFKTLFSKLAGDDMEISVKELQTILNRIISKHKDLRTNGF<br>SLESCRSMVNLMDRDGNGKLGLVEFNILWNRIRNYLTIFRKFDLDKSGSMSAYEMRMAIEAAGFKLNKKLHEL<br>ITRYSEPDLAVDFDNFVCCLVRLLETMFRFFKLLDLDLGDVVTFDLFWLQLTMF |
| 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

Calcium-regulated non-lysosomal thiol-protease which catalyze limited proteolysis of substrates involved in cytoskeletal remodeling and signal transduction.

## References

Poirier C., Poussard S., Faust D.M., Imaizumi-Sherrer T., Weiss M.C., Ducastaing A., Montarras D., Pinset C., Guenet J.-L. Cloning and characterization of the cDNA and gene encoding the mouse mu-calpain large subunit protein.Sahr K.E., Andrabi S., Peters L.L., Chishti A.H. Comprehensive identification of phosphorylation sites in postsynaptic density preparations.Trinidad J.C., Specht C.G., Thalhammer A., Schoepfer R., Burlingame A.L.Mol. Cell. Proteomics 5:914-922(2006)Research Topic:Others

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