

# Recombinant Mouse Capn1 protein, His-tagged

**Cat. No.** Capn1-2030M    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                     |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Mouse Capn1 aa. (Tyr387~Asp694 (Accession # O35350)) fused with N-terminal His tag was produced in E. coli cells.                                                                                                                                                                                                       |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                               |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                              |
| <b>ProteinLength</b>    | Tyr387~Asp694                                                                                                                                                                                                                                                                                                                       |
| <b>Form</b>             | Freeze-dried powder                                                                                                                                                                                                                                                                                                                 |
| <b>Molecular Mass</b>   | Predicted Molecular Mass: 37.5kDa                                                                                                                                                                                                                                                                                                   |
| <b>Endotoxin</b>        | <1.0EU per 1g (determined by the LAL method)                                                                                                                                                                                                                                                                                        |
| <b>Purity</b>           | >95%                                                                                                                                                                                                                                                                                                                                |
| <b>Characteristic</b>   | The isoelectric point is 5.9.                                                                                                                                                                                                                                                                                                       |
| <b>Applications</b>     | SDS-PAGE; WB; ELISA; IP.                                                                                                                                                                                                                                                                                                            |
| <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°C 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. |

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|-----------------------|------------------------------------------------------------------------------------------------------------|
| <b>Storage</b>        | Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months. |
| <b>Storage buffer</b> | Supplied as lyophilized form in PBS, pH7.4, containing 5% sucrose, 0.01% sarcosyl.                         |
| <b>Reconstitution</b> | Reconstitute in sterile PBS, pH7.2-pH7.4.                                                                  |

## GENE INFORMATION

|                        |                                                                                                                                                                                         |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | Capn1 calpain 1 [ Mus musculus (house mouse) ]                                                                                                                                          |
| <b>Official Symbol</b> | Capn1                                                                                                                                                                                   |
| <b>Synonyms</b>        | Capa1; Capa-1; mu-calpin; CANP 1; calcium-activated neutral proteinase 1; calpain mu-type; calpain-1 large subunit; micromolar-calpain; mu-calpain; muCANP; calpain-1 catalytic subunit |
| <b>Gene ID</b>         | 12333                                                                                                                                                                                   |
| <b>mRNA Refseq</b>     | NM_001110504.1                                                                                                                                                                          |
| <b>Protein Refseq</b>  | NP_001103974.1                                                                                                                                                                          |
| <b>UniProt ID</b>      | O35350                                                                                                                                                                                  |

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