# Recombinant Human CAPNS1 Protein, MYC/DDK-tagged

**Cat. No.** CAPNS1-2487H **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant Human CAPNS1 protein, fused to MYC/DDK-tagged at C-terminus, was expressed in HEK293. |
| **Species** | Human |
| **Source** | HEK293 |
| **Description** | This gene is a member of the calpain small subunit family. Calpains are calcium-dependent cysteine proteinases that are widely distributed in mammalian cells. Calpains operate as heterodimers, comprising a specific large catalytic subunit (calpain 1 subunit in Calpain I, and calpain 2 subunit in Calpain II), and a common small regulatory subunit encoded by this gene. This encoded protein is essential for the stability and function of both calpain heterodimers, whose proteolytic activities influence various cellular functions including apoptosis, proliferation, migration, adhesion, and autophagy. Calpains have been implicated in neurodegenerative processes, such as myotonic dystrophy. A pseudogene of this gene has been defined on chromosome 1. Alternative splicing results in multiple transcript variants. |
| **Form** | 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol. |
| **Molecular Mass** | 28.1 kDa |
| **Purity** | > 80% as determined by SDS-PAGE and Coomassie blue staining |
| **Concentration** | >50 ug/mL as determined by microplate BCA method |

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## GENE INFORMATION

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| **Gene Name** | CAPNS1 calpain, small subunit 1 [ Homo sapiens ] |
| **Official Symbol** | CAPNS1 |
| **Synonyms** | CALPAIN4; CANP; CANPS; CAPN4; CDPS; CSS1 |
| **Gene ID** | 826 |
| **mRNA Refseq** | NM_001003962 |
| **Protein Refseq** | NP_001003962 |
| **MIM** | 114170 |
| **UniProt ID** | P04632 |

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