

Recombinant Human CAPNS1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. CAPNS1-723H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	CAPNS1 MS Standard C13 and N15-labeled recombinant protein (NP_001740) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
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.
Molecular Mass	28.1 kDa
AA Sequence	MFLVNSFLKGGGGGGGGGGGLGGGLGNVLGGLISGAGGGGGGGGGGGGGGGGGGG GGGGTAMRILGGVISAISEAAAQYNPEPPPPRTHYSNIEANESEEVQRRLFAQLA GDDMEVSATELMNILNKVVTRHPDLKTDGFGIDTCRSMVAVMDSDTTGKLGFEFEFK

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

YLWNNIKRWQAIYKQFDTDRSGTICSEELPGAFAAGFHLNEHLYNMIIRRYSD
 ESNMDFDNFISCLVRLDAMFRAFKSLDKDGTGQIQVNIQEWLQLTMYSTRTRPLEQKLI
 SEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name CAPNS1 calpain small subunit 1 [Homo sapiens (human)]

Official Symbol CAPNS1

Synonyms CAPNS1; calpain, small subunit 1; CAPN4; calpain small subunit 1; 30K; CANP; CANPS; CDPS; CANP small subunit; calpain regulatory subunit; calpain, small polypeptide; calpain 4, small subunit (30K); calcium-dependent protease, small subunit; calcium-dependent protease small subunit 1; calcium-activated neutral proteinase small subunit; CSS1; CALPAIN4;

Gene ID 826

mRNA Refseq NM_001749

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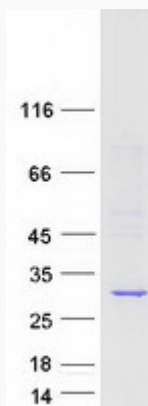
 45-1 Ramsey Road, Shirley, NY 11967, USA

Protein Refseq NP_001740

MIM 114170

UniProt ID P04632

SDS-PAGE



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