Recombinant Human CAPNS1 Protein, MYC/DDK-tagged

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

SPECIFICATION

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

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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