

Product datasheet for PH312322

CAPNS1 (NM_001749) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	CAPNS1 MS Standard C13 and N15-labeled recombinant protein (NP_001740)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC212322
Predicted MW:	28.1 kDa
Protein Sequence:	>RC212322 representing NM_001749 Red=Cloning site Green=Tags(s) MFLVNSFLKGGGGGGGGGLGGGLGNVLGGLISGAGGGGGGGGGGGGGGGGGGTAMRILGGVISAISEAAAQYNPEPPPPRTHYSNIEANESEEVRFRRLLFAQLAGDDMEVSATELMNILNKVVTRHPDLKTDGFGIDTCRSMVAVMDSDTTGKLGFEFKYLWNNIKRWQAIYKQFDTDRSGTICSELPGAFEAAAGFHLNEHLYNMIIRRYSDESGNMDFDNFISCLVRLDAMFRAFKSLDKDGTGQIQVNIQEWLQLTMYS TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_001740
RefSeq Size:	1492
RefSeq ORF:	804
Synonyms:	CALPAIN4; CANP; CANPS; CAPN4; CDPS; CSS1
Locus ID:	826
UniProt ID:	P04632



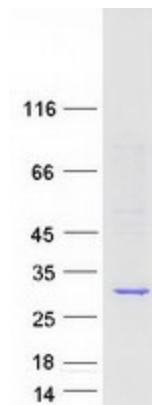
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Cytogenetics: 19q13.12

Summary: 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. [provided by RefSeq, Oct 2014]

Protein Families: Druggable Genome, Protease

Product images:



Coomassie blue staining of purified CAPNS1 protein (Cat# [TP312322]). The protein was produced from HEK293T cells transfected with CAPNS1 cDNA clone (Cat# [RC212322]) using MegaTran 2.0 (Cat# [TT210002]).