

Product datasheet for PH300539

Calpain 6 (CAPN6) (NM_014289) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	CAPN6 MS Standard C13 and N15-labeled recombinant protein (NP_055104)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC200539
Predicted MW:	74.6 kDa
Protein Sequence:	>RC200539 protein sequence Red=Cloning site Green=Tags(s)

MGFPLKLFKNQKYQELKQECIKDSRLFCDPTFLPENSFLFYNRLLPGKVWVKRPQDICDDPHLIVGNISN
HQLTQGRLGHKPMVSAFSCSLAVQESHWTKTIPNHKEQEWDPQKTEKYAGIFHFRFWHFGWTEVVIDDLL
PTINGDLVFSFSTSMNEFWNALLEKAYAKLLGCYEALDGLTITDIIVDFTGTLAETVDMQKGRYTELVEE
KYKLFGELYKFTFKGGLICCSIESPNQEEQEVETDWGLLKGHYTMDIRKIRLGERLVEVFSAEKVYVM
RLRNPLGRQEWSGPWSEISEEWQQLTASDRKNLGLVMSDDGEFWMSLEDFCRNFHKLNVCRNVNPNIFGR
KELESVLGCWTVDDPLMNRSGGCYNNRDTFLQNPQYIFVTPEDGHKVMISLQQKDLRTYRRMGRPNDYI
IGFELFKVEMNRKFRLLHLYIQERAGTSTYIDTRTVFLSKYLKKNYVLVPTMFQHGRTSEFLLRIFSEV
PVQLRELTLMPKMSCWNLARGYPKVVQTITVHSAEDLEKKYANETVNPYLVIKCGKEEVRSPVQKNTVH
AIFDTQAIIFYRRTDIPIIIVQVWNSRKFCDQFLGQVTLADPSCDRDLKSLYLKKGKGPATKVKQGHISF
KVISSDDLTEL

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_055104
RefSeq Size:	3604



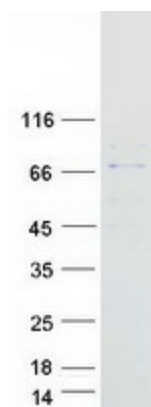
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RefSeq ORF:	1923
Synonyms:	CalpM; CANPX; CAPNX; DJ914P14.1
Locus ID:	827
UniProt ID:	Q9Y6Q1
Cytogenetics:	Xq23

Summary: Calpains are ubiquitous, well-conserved family of calcium-dependent, cysteine proteases. The calpain proteins are heterodimers consisting of an invariant small subunit and variable large subunits. The large subunit possesses a cysteine protease domain, and both subunits possess calcium-binding domains. Calpains have been implicated in neurodegenerative processes, as their activation can be triggered by calcium influx and oxidative stress. The protein encoded by this gene is highly expressed in the placenta. Its C-terminal region lacks any homology to the calmodulin-like domain of other calpains. The protein lacks critical active site residues and thus is suggested to be proteolytically inactive. The protein may play a role in tumor formation by inhibiting apoptosis and promoting angiogenesis. [provided by RefSeq, Nov 2009]

Protein Families: Druggable Genome, Protease

Product images:



Coomassie blue staining of purified CAPN6 protein (Cat# [TP300539]). The protein was produced from HEK293T cells transfected with CAPN6 cDNA clone (Cat# [RC200539]) using MegaTran 2.0 (Cat# [TT210002]).