

Recombinant Human CAPN7 Protein, MYC/DDK-tagged, C13 and N15-labeled

Cat. No. CAPN7-235H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	CAPN7 MS Standard C13 and N15-labeled recombinant protein (NP_055111) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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 function of the protein encoded by this gene is not known. An orthologue has been found in mouse but it seems to diverge from other family members. The mouse orthologue is thought to be calcium independent with protease activity. [provided by RefSeq, Jul 2008]
Molecular Mass	92.7 kDa
AA Sequence	MDATALERDAVQFARLAVQRDHEGRYSEAVFYKQAAQALIYAEMAGSSLENIQEKI TEYLERVQALHSAVQSKSADPLKSKHQLDLERAHFLVTQAFDEDEKENVEDAIELYT EAVDLCLKTSYETADKVLQNKLKQLARQALDRAEALGEPLTKPVGKISSTSVKPKPP PERAHFPLGANPFLEPQSFISPPQSCDAQGQRYTAEIEVLRTTSKINGIEYVPFMNV

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DLRERFAYPMPFCDRWGKLPSPKQKTTFSKWVRPEDLTNNPTMIYTVSSFSIKQTI
VSDCSFVASLAISAAAYERRFNKKLITGIIYPQNKDGEPEYNPCGKYMVKLHLNGVPRK
VIIDDQLPVDHKGELLCSYSNNKSELWVSLIEKAYMKVMGGYDFPGSNSNIDLHALT
GWIPERIAMHSDSQTFSDKNSFRMLYQRFHKGDVLITASTGMMTEAEGEKWGLVPT
HAYAVLDIREFKGLRFIQLKNPWSHLRWKGRYSENDVENWTPELQKYLNFDPRTAQ
KIDNGIFWISWDDLCQYYDVIYLSWNPGLFKESTCIHSTWDAKQGPVKDAYSLANNP
QYKLEVQCPQGGAAVWVLLSRHITDKDDFANNREFITMVVYKTDGKKVYYPADPPP
YIDGIRINSPHYLTIKILTTPGTHFTLVVSQYEKQNTIHYTVRVYSACSFTFSKIPSPY
TLSKRINGKWSGQSAGGCGNFQETHKNNPIYQFHIEKTGPLLIELRGPRQYSVGFEV
VTVSTLGDPGPHGFLRKSSGDYRCGFCYLELENIPSGIFNIIPSTFLPKQEGPFFLDF
NSIPIKITQLQTRTRPLEQKLISEEDLAANDILDYKDDDDKV

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 CAPN7 calpain 7 [Homo sapiens (human)]

Official Symbol CAPN7

Synonyms CAPN7; calpain 7; PALBH; CALPAIN7; calpain-7; calpain like protease; homolog of Aspergillus Nidulans PALB; palB homolog

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Gene ID	23473
mRNA Refseq	NM_014296
Protein Refseq	NP_055111
MIM	606400
UniProt ID	Q9Y6W3

SDS-PAGE
