

## Product datasheet for PH305642

### Calpain 2 (CAPN2) (NM\_001748) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	CAPN2 MS Standard C13 and N15-labeled recombinant protein (NP_001739)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC205642
Predicted MW:	80 kDa
Protein Sequence:	>RC205642 protein sequence Red=Cloning site Green=Tags(s)

MAGIAAKLAKDREAAEGLGSHERAIKYLNQDYEARNECLEAGTLFQDPSFPAIPALSALGFKELGPYSSKT  
RGIEWKRPTEICADPQFIIGGATRTDICQALGDCWLLAAIASLTLNEELARVVPLNQSFQENYAGIFH  
FQFWQYGEWVEVVDDRLPTKDGELLFVHSAEGSEFWSALLEKAYAKINGCYEALSGGATTEGFEDFTGG  
IAEWYELKKPPPNLFKIIQKALQKGSLLGCSIDITSAADSEAITFQKLVKGHAYSVTGAEVEESNGSLQK  
LIRIRNPWGEVEWTGRWVNDNCPSWNTIDPEERERLRRHEDGEFWMFSDFLRHYSRLEICNLTPDTLT  
DTYKKWKLTKMDGNWRRGSTAGGCRNYPNTFWMNPQYLKLEEEDEDEEDGESGCTFLVGLIQKHRRQR  
KMGEDMHTIGFGIYEVPEELSGQTNIHLKSNFFLTNRARERSDTFINLREVLNRFKLPPEYILVPSTFE  
PNKDGDFCIRVFSEKKADYQAVDDEIEANLEEFDISEDDIDDGFRRLFAQLAGEDAEISAFELQILRRV  
LAKRQDIKSDGFSIETCKIMVDMLSDGSGKLGKLFYILWTKIQYQKIYREIDVDRSGTMNSYEMRKA  
LEEAGFKMPCQLHQVIVARFADDQLIIDFNFRVLRLETLFKIFKQLDPENTGTIELDLISWLCFSVL

SGPTRTRPLEQKLI SEEDLAANDILDYKDDDDKV

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- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-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:	<a href="#">NP_001739</a>
RefSeq Size:	3492



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RefSeq ORF:	2100
Synonyms:	CANP2; CANPL2; CANPml; mCANP
Locus ID:	824
UniProt ID:	<a href="#">P17655</a> , <a href="#">Q59EF6</a>
Cytogenetics:	1q41

**Summary:** The calpains, calcium-activated neutral proteases, are nonlysosomal, intracellular cysteine proteases. The mammalian calpains include ubiquitous, stomach-specific, and muscle-specific proteins. The ubiquitous enzymes consist of heterodimers with distinct large, catalytic subunits associated with a common small, regulatory subunit. This gene encodes the large subunit of the ubiquitous enzyme, calpain 2. Multiple heterogeneous transcriptional start sites in the 5' UTR have been reported. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Mar 2009]

**Protein Families:** Druggable Genome, Protease

**Protein Pathways:** Alzheimer's disease, Apoptosis, Focal adhesion

### Product images:



Coomassie blue staining of purified CAPN2 protein (Cat# [TP305642]). The protein was produced from HEK293T cells transfected with CAPN2 cDNA clone (Cat# [RC205642]) using MegaTran 2.0 (Cat# [TT210002]).