

Product datasheet for **TP305642**

Calpain 2 (CAPN2) (NM_001748) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Recombinant protein of human calpain 2, (m/II) large subunit (CAPN2)

Species: Human

Expression Host: HEK293T

Expression cDNA Clone >RC205642 protein sequence

or AA Sequence: **Red**=Cloning site **Green**=Tags(s)

MAGIAAKLAKDREAAEGLGSHERAIKYLNQDYEARNECLEAGTLFQDPSFPAIPALSALGFKELGPYSSKT
RGIEWKRPTEICADPQFIIGGATRTDICQGALGDCWLLAAIASLTLNEEILARVPLNQSFAQENYAGIFH
FQFWQYGEWVEVVDDRLPTKDGELLFVHSAEGSEFWALLEKAYAKINGCYEALSGGATTEGFEDFTGG
IAEWYELKKPPPPLFKIIQKALQKGSLLGCSIDITSAADSEAITFQKLVKGHAYSVTGAEVESNGSLQK
LIRIRNPWGEVEWTGRWVNDNCPSWNTIDPEERERLRRHEDGEFWMFSDFLRHYSRLEICNLTPDTLTS
DTYKKWKLTKMDGNWRRGSTAGGCRNYPNTFWMNPQYLIKLEEEDEEEDGESGCTFLVGLIQKHRRRQR
KMGEDMHTIGFGIYEVPEELSGQTNHLSKNFFLTNRARERSDTFINLREVLNRFKLPPEYILVPSTFE
PNKDGDFCIRVFSEKKADYQAVDDEIEANLEEFDISEDIDDGFRRLFAQLAGEDAEISAFELQILRRV
LAKRQDIKSDGFSIETCKIMVDMLDSDGSGKLGKLFYILWTKIQKYQKIYREIDVDRSGTMNSYEMRKA
LEEAGFKMPCQLHQVIVARFADDQLIIDFDNFVRCLVRLETFLKIFKQLDPENTGTIELDLISWLCFSVL

SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

Predicted MW: 79.8 kDa

Concentration: >50 ug/mL as determined by microplate BCA method

Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer: 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol

Preparation: Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

Storage: Store at -80°C.

Stability: Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.



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RefSeq: [NP_001739](#)
Locus ID: 824
UniProt ID: [P17655](#), [Q59EF6](#)
RefSeq Size: 3492
Cytogenetics: 1q41
RefSeq ORF: 2100
Synonyms: CANP2; CANPL2; CANPml; mCANP

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]).