Recombinant Full Length Human CAPN2 Protein, C-Flag-tagged

Cat. No. CAPN2-115HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human CAPN2 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	79.8 kDa
AA Sequence	MAGIAAKLAKDREAAEGLGSHERAIKYLNQDYEALRNECLEAGTLFQDPSFPAIPSAL GFKELGPYSSKT RGIEWKRPTEICADPQFIIGGATRTDICQGALGDCWLLAAIASLTL NEEILARVVPLNQSFQENYAGIFH FQFWQYGEWVEVVVDDRLPTKDGELLFVHSAE GSEFWSALLEKAYAKINGCYEALSGGATTEGFEDFTGG IAEWYELKKPPPNLFKIIQ KALQKGSLLGCSIDITSAADSEAITFQKLVKGHAYSVTGAEEVESNGSLQK LIRIRNP

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

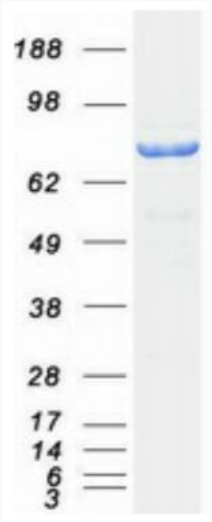
	WGEVEWTGRWNDNCPSWNTIDPEERERLTRRHEDGEFWMSFSDFLRHYSRLEIC NLTPDTLTS DTYKKWKLTKMDGNWRRGSTAGGCRNYPNTFWMNPQYLIKLEEEDE DEEDGESGCTFLVGLIQKHRRRQR KMGEDMHTIGFGIYEVPEELSGQTNIHLSKNF FLTNRARERSDTFINLREVLNRFKLPPGEYILVPSTFE PNKDGDFCIRVFSEKKADYQ AVDDEIEANLEEFDISEDDIDDGFRRLFAQLAGEDAEISAFELQTILRRV LAKRQDIKS DGFSIETCKIMVDMLDSDGSGKLGLKEFYILWTKIQKYQKIYREIDVDRSGTMNSYEM RKA LEEAGFKMPCQLHQVIVARFADDQLIIDFDNFVRCLVRLETLFKIFKQLDPENTG TIELDLISWLCFSVLSGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Protease
Protein Pathways	Alzheimer's disease, Apoptosis, Focal adhesion
Full Length	Full L.

GENE INFORMATION

Gene Name	CAPN2 calpain 2 [Homo sapiens (human)]

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Official Symbol	CAPN2
Synonyms	CANP2; mCANP; CANPL2; CANPml
Gene ID	824
mRNA Refseq	NM_001748.5
Protein Refseq	NP_001739.3
MIM	114230
UniProt ID	P17655



Coomassie blue staining of purified CAPN2 protein.

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