

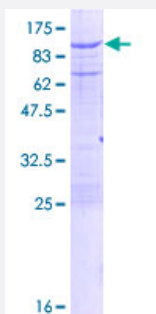
Full-Length

CAPN2 (Human) Recombinant Protein (P01)

Catalog # H00000824-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human CAPN2 full-length ORF (AAH21303.1, 1 a.a. - 700 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MAGIAAKLAKDREAAEGLGSHERAIKYLNQDYEARNECLEAGTLFQDPSFPAIPSA LGFKELGPY
SSKTRGIEWKRPTTEICADPQFIIGGATRTDICQGALGDCWLLAAIASLTNNEILARVVPLNQSFQEN
YAGIFHFQFWQYGEWVEVVVDDRLPTKDGELLFVHSAEGSEFWSALLEKAYAKINGCYEALSGG
ATTEGFEDFTGGIAEWYELKKPPPNLFKIIQKALQKGSLLGCSIDITSAADSEAITFQKLVKGHAYSV
TGAEEVESNGSLQKLIRNPWGEVEWTGRWNDNCPSWNTIDPEERERLTRRHEDGEFWMSFS
DFLRHYSRLEICNLTPDTLTSPTYKKWKLTKMDGNWRRGSTAGGCRNYPNTFWMNPQYLIKLEEE
DEDEEDGESGCTFLVGLIQKHRRRQRKMGEDMHTIGFGIYEVPEELSGQTNHLSKNFFLTNRARE
RSDTFINLREVLNRFKLPPGEYILVPSTFEPNKDGDGFCIRVFSEKKADYQAVDDEIEANLEEFDIS
DDIDDGFRRLFAQLAGEDAEISAFELQTLRRVLAKRQDIKSDGFSIETCKIMVDMLDSDGSGKLGL
KEFYILWTKIQKYQKIYREIDVDRSGTMNSYEMRKALEEAGFKMPCQLHQVVARFADDQLIIDFDNF
VRCLVRLETLFKIFKQLDPENTGTIELDLISWLCFSVL

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

106.4

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — CAPN2

Entrez GeneID	824
GeneBank Accession#	BC021303.2
Protein Accession#	AAH21303.1
Gene Name	CAPN2
Gene Alias	CANP2, CANPL2, CANPml, FLJ39928, mCANP
Gene Description	calpain 2, (m//l) large subunit
Omim ID	114230
Gene Ontology	Hyperlink
Gene 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]
Other Designations	M-calpain OTTHUMP00000035497 calcium-activated neutral proteinase calpain 2, large [catalytic] subunit calpain 2, large subunit calpain M-type calpain, large polypeptide L2 millimolar-calpain

Pathway

- [Apoptosis](#)
- [Focal adhesion](#)

Disease

- [Adenocarcinoma](#)
- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Esophageal Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Parkinson disease](#)
- [Tobacco Use Disorder](#)