

Calpain-1 catalytic subunit (CAPN1) Recombinant Protein | CAPN1 recombinant protein

Recombinant Human Calpain-1 catalytic subunit (CAPN1)

CATALOG # AAA18465	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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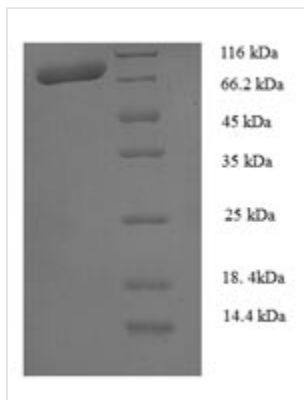
PRODUCT SYNONYMS

Calpain-1 catalytic subunit (CAPN1); Recombinant Human Calpain-1 catalytic subunit (CAPN1); Calcium-activated neutral proteinase 1; CANP 1; Calpain mu-type; Calpain-1 large subunit; Cell proliferation-inducing gene 30 protein; Micromolar-calpain; muCANP; CAPN1 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	1-714aa; Full Length Protein
Sequence	MSEEIIPVY CTGVSAQVQK QRARELGLGR HENAIKYLQD DYEQLRVRL QSGTLFRDEA FPPVPQSLGY KDLGPNSSKT YGIKWKRPTE LLSNPQFIVD GATRTDICQG ALGDCWLLAA IASLTINDTL LHRVPHGQS FQNGYAGIFH FQLWQFGEWV DVVDDLLPI KDGKLVFVHS AEGNEFWSAL LEKAYAKVNG SYEALSGGST SEGFEDFTGG VTEWYELRKA PSDLYQIILK ALERGSLLGC SIDISSVLDM EAITFKKLVK GHAYSVTGAK QVNYRGQVVS LIRMRNPWGE VEWGAWSDS SSEWNNVDPY ERDQLRVKME DGEFWMSFRD FMREFTRLEI CNLTPDALKS RTIRKWNTTL YEGTWRRGST AGGCRNYPAT FWVNPQFKIR LDETDDPDDY GDRESGCSFV LALMQKHRRR ERRFGRDMET IGFAYEVPP ELVGQPAVHL KRDFFLANAS RARSEQFINL REVSTRFRLP PGEYVVVPST FEPNKEGDFV LRRFSEKSAG TVELDDQIQA NLPDEQVLSE EEIDENFKAL FRQLAGEDME ISVKELRTIL NRIISKHKDL RTKGFSLESC RSMVNLMDRD GNGKLGLVEF NILWNRIRNY LSIFRKFDLD KSGSMSAYEM RMAIESAGFK LNKKLYELII TRYSEPLAV DFDNFVCLV RLETMFRFFK TLDTLDGTV TFDLFKWLQL TMFA
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for CAPN1 recombinant protein	Calcium-regulated non-lysosomal thiol-protease which catalyze limited proteolysis of substrates involved in cytoskeletal remodeling and signal transduction.
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Product Categories/Family for CAPN1 recombinant protein	Cell Biology
References	Complete amino acid sequence of the large subunit of the low-Ca²⁺-requiring form of human Ca²⁺-activated neutral protease (muCANP) deduced from its cDNA sequence.Aoki K., Imajoh S., Ohno S., Emori Y., Koike M., Kosaki G., Suzuki K.FEBS Lett. 205:313-317(1986) A novel member of the calcium-dependent cysteine protease family.Sorimachi H., Ohmi S., Emori Y., Kawasaki H., Saido T.C., Ohno S., Minami Y., Suzuki K.Biol. Chem. Hoppe-Seyler 371:171-176(1990) Identification of a human cell proliferation inducing gene.Kim J.W.NIEHS SNPs program Modulation of the calpain autoproteolysis by calpastatin and phospholipids.Melloni E., Michetti M., Salamino F., Minafra R., Pontremoli S.Biochem. Biophys. Res. Commun. 229:193-197(1996) Autolysis of human erythrocyte calpain produces two active enzyme forms with different cell localization.Michetti M., Salamino F., Tedesco I., Aversa M., Minafra R., Melloni E., Pontremoli S.FEBS Lett. 392:11-15(1996) Calcium-binding properties of human erythrocyte calpain.Michetti M., Salamino F., Minafra R., Melloni E., Pontremoli S.Biochem. J. 325:721-726(1997) Lys-N and trypsin cover complementary parts of the phosphoproteome in a refined SCX-based approach.Gauci S., Helbig A.O., Slijper M., Krijgsveld J., Heck A.J., Mohammed S.Anal. Chem. 81:4493-4501(2009) Initial characterization of the human central proteome.Burkard T.R., Planyavsky M., Kaupe I., Breitwieser F.P., Buerckstuehmer T., Bennett K.L., Superti-Furga G., Colinge J.BMC Syst. Biol. 5:17-17(2011) Comparative large-scale characterisation of plant vs. mammal proteins reveals similar and idiosyncratic N-alpha acetylation features.Bienvenut W.V., Sumpton D., Martinez A., Lilla S., Espagne C., Meinnel T., Giglione C.Mol. Cell. Proteomics 11:M111.015131-M111.015131(2012) N-terminal acetylome analyses and functional insights of the N-terminal acetyltransferase NatB.Van Damme P., Lasa M., Polevoda B., Gazquez C., Elosegui-Artola A., Kim D.S., De Juan-Pardo E., Demeyer K., Hole K., Larrea E., Timmerman E., Prieto J., Arnesen T., Sherman F., Gevaert K., Aldabe R.Proc. Natl. Acad. Sci. U.S.A. 109:12449-12454(2012) An enzyme assisted RP-RPLC approach for in-depth analysis of human liver phosphoproteome.Bian Y., Song C., Cheng K., Dong M., Wang F., Huang J., Sun D., Wang L., Ye M., Zou H.J. Proteomics 96:253-262(2014) Molecular mode of action of a covalently inhibiting peptidomimetic on the human calpain protease core.Li Q., Hanzlik R.P., Weaver R.F., Schonbrunn E.Biochemistry 45:701-708(2006)

NCBI AND UNIPROT INFORMATION

NCBI GI #	311893363
NCBI GeneID	823
NCBI Accession #	NP_001185797.1
NCBI GenBank Nucleotide #	NM_001198868.1
UniProt Accession #	P07384; Q2TTR0; Q6DHV4
Molecular Weight	85.9 kDa
NCBI Official Full Name	calpain-1 catalytic subunit
NCBI Official Synonym Full Names	calpain 1
NCBI Official Symbol	CAPN1
NCBI Official Synonym Symbols	CANP; muCL; CANP1; CANPL1; muCANP
NCBI Protein Information	calpain-1 catalytic subunit
UniProt Protein Name	Calpain-1 catalytic subunit
UniProt Gene Name	CAPN1
UniProt Synonym Gene Names	CANPL1; CANP 1; muCANP
UniProt Entry Name	CAN1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/capn1-recombinant-protein-e-coli/18465>