

Septin-7 Recombinant Protein | SEPT7 recombinant protein

Recombinant Human Septin-7

CATALOG # AAA116773	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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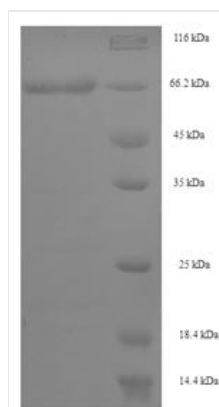
PRODUCT SYNONYMS

Septin-7; Recombinant Human Septin-7; CDC10 protein homolog; SEPT7 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	2-437aa; Full Length
Sequence	SVSARSAAAE ERSVNSSTMV AQQKNLEGYV GFANLPNQVY RKSVKRGFEF TLMVVGESGL GKSTLINSLF LTDLYSPEYP GPSHRIKKT VQVEQSKVLK EGGVQLLLTI VDTPGFGDAV DNSNCWQPVI DYIDSKFEDY LNAESRVNRR QMPDNRVQCC LYFIAPSGHG LKPLDIEFMK RLHEKVNIIP LIAKADTLTP EECQQFKKQI MKEIQEHKIK IYEFPETDDE EENKLVKKIK DRLPLAVVGS NTIIEVNGKR VRGRQYPWGV AEVENGEHCD FTILRNMLIR THMQDLKDV TNNVHYENYRS RKLAAVTYNG VDNKNKNGQL TKSPLAQMEE ERREHVAKMK KMEMEMEQVF EMKVKEKVQK LKDSEALQR RHEQMKNLE AQHKELEEK RQFEDEKANW EAQRILEQQ NSSRTLEKNK KKGKIF
Sequence Length	437
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 SEPT7 recombinant protein	Filament-forming cytoskeletal GTPase. Required for normal organization of the actin cytoskeleton. Required for normal progress through mitosis. Involved in cytokinesis. Required for normal association of CENPE with the kinetochore. Plays a role in ciliogenesis and collective cell movents.
Product Categories/Family for SEPT7 recombinant protein	Cell Biology

References

Molecular cloning of a novel human cDNA homologous to CDC10 in *Saccharomyces cerevisiae*. Nakatsuru S., Sudo K., Nakamura Y. *Biochem. Biophys. Res. Commun.* 202;82:87(1994) Biochemical and cell biological analyses of a mammalian septin complex, Sept7/9b/11. Nagata K., Asano T., Nozawa Y., Inagaki M. *J. Biol. Chem.* 279:55895-55904(2004) Expression profiling the human septin gene family. Hall P.A., Jung K., Hillan K.J., Russell S.E. *H. J. Pathol.* 206:269-278(2005) Mammalian septins regulate microtubule stability through interaction with the microtubule-binding protein MAP4. Kremer B.E., Haystead T., Macara I.G. *Mol. Biol. Cell* 16:4648-4659(2005) Immunoaffinity profiling of tyrosine phosphorylation in cancer cells. Rush J., Moritz A., Lee K.A., Guo A., Goss V.L., Spek E.J., Zhang H., Zha X.-M., Polakiewicz R.D., Comb M. *J. Nat. Biotechnol.* 23:94-101(2005) Global, in vivo, and site-specific phosphorylation dynamics in signaling networks. Olsen J.V., Blagoev B., Gnäd F., Macek B., Kumar C., Mortensen P., Mann M. *Cell* 127:635-648(2006) Structural analysis of septin 2, 6, and 7 complexes. Low C., Macara I.G. *J. Biol. Chem.* 281:30697-30706(2006) Septins regulate actin organization and cell-cycle arrest through nuclear accumulation of NCK mediated by SOCS7. Kremer B.E., Adang L.A., Macara I.G. *Cell* 130:837-850(2007) Septin 7 interacts with centromere-associated protein E and is required for its kinetochore localization. Zhu M., Wang F., Yan F., Yao P.Y., Du J., Gao X., Wang X., Wu Q., Ward T., Li J., Kioko S., Hu R., Xie W., Ding X., Yao X.J. *Biol. Chem.* 283:18916-18925(2008) A quantitative atlas of mitotic phosphorylation. Dephoure N., Zhou C., Villen J., Beausoleil S.A., Bakalarski C.E., Elledge S.J., Gygi S.P. *Proc. Natl. Acad. Sci. U.S.A.* 105:10762-10767(2008) 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) Septins regulate bacterial entry into host cells. Mostowy S., Nam Tham T., Danckaert A., Guadagnini S., Boisson-Dupuis S., Pizarro-Cerda J., Cossart P. *PLoS ONE* 4:E4196-E4196(2009) Quantitative phosphoproteomics reveals widespread full phosphorylation site occupancy during mitosis. Olsen J.V., Vermeulen M., Santamaria A., Kumar C., Miller M.L., Jensen L.J., Gnäd F., Cox J., Jensen T.S., Nigg E.A., Brunak S., Mann M. *Sci. Signal.* 3:RA3-RA3(2010) Initial characterization of the human central proteome. Burkard T.R., Planyavsky M., Kaupe I., Breitwieser F.P., Buerckstuegger T., Bennett K.L., Superti-Furga G., Colinge J. *BMC Syst. Biol.* 5:17-17(2011) 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) Structural insight into filament formation by mammalian septins. Sirajuddin M., Farkasovsky M., Hauer F., Kuehlmann D., Macara I.G., Weyand M., Stark H., Wittinghofer A. *Nature* 449:311-315(2007)

NCBI AND UNIPROT INFORMATION

NCBI GI #	148352331
NCBI GeneID	989
NCBI Accession #	NP_001779.3
NCBI GenBank Nucleotide #	NM_001788.5
UniProt Accession #	Q16181; Q52M76; Q6NX50
Molecular Weight	52.5 kDa
NCBI Official Full Name	septin-7 isoform 1
NCBI Official Synonym Full Names	septin 7
NCBI Official Symbol	SEPT7
NCBI Official Synonym Symbols	CDC3; CDC10; SEPT7A; NBLA02942
NCBI Protein Information	septin-7
UniProt Protein Name	Septin-7
UniProt Gene Name	SEPT7
UniProt Synonym Gene Names	CDC10
UniProt Entry Name	SEPT7_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.