

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

Cat. No. CASK-1552HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human CASK Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	This gene encodes a calcium/calmodulin-dependent serine protein kinase. The encoded protein is a MAGUK (membrane-associated guanylate kinase) protein family member. These proteins are scaffold proteins and the encoded protein is located at synapses in the brain. Mutations in this gene are associated with FG syndrome 4, intellectual disability and microcephaly with pontine and cerebellar hypoplasia, and a form of X-linked intellectual disability. Multiple 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	104.3 kDa
AA Sequence	MADDDVLFEDVYELCEVIGKGPFSVVRRCINRETGQQFAVKIVDVAKFTSSPGLSTE DLKREASICHMLK HPHIVELLEITYSSDGMLYMVFEFMDGADLCFEIVKRADAGFVYS EAVASHYMRQILEALRYCHDNNIIHR DVKPHCVLLASKENSAPVKLGGFGVAIQLGE SGLVAGGRVGTPHFMAPEVVKREPYGKPVDVWGCGVILF ILLSGCLPFYGTKERLF EGIIKGKYKMNPRQWSHISESAKDLVRRMLMLDPAERITVYEALNHPWLKERD RYA YKIHLPETVEQLRKFNARRKLKGAVLAAVSSHKFNSFYGDPPEELPDFSEDPTSSGL

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LAAERAVSQV LDSLEEIHALTDCSEKDLDFLHSVFQDQHLHTLLDLYDKINTKSSPQI
 RNPPSDAVQRAKEVLEEISCYP ENNDAKELKRILTQPHFMALLQTHDVVAHEVYS
 EALRVTPPPTSPYLNQD SPESANGDMDMENVTRVRL VQFQKNTDEPMGITLKMNE
 LNHCVARIMHGGMIHRQGT LHVGVDEIREINGISVANQTVEQLQKMLREMR GSITFKI
 VPSYRTQSSSCERDSPSTSRQSPANGHSSTNNSVSDLPSTTQPKGRQIYVRAQFEY
 DPAKDDL IPCKEAGIRFRVGDIIQISKDDHNWWQGKLENSKNGTAGLIPSPQLQEW
 RVACIAMEKTKQEQQASCTW FGKKKKQYKDKYLAKHNAVFDQLDLVTYEEVVKLP
 AFKRKTLVLLGAHGVGRRHIKNTLITKHPDRFAYP IPHTTRPPKKDEENGKNYYFVS
 HDQMMQDISNNEYLEYGSHEDAMYGTKLETIRKIHEQGLIAILDVEPQ ALKVLRTAEF
 APFVVFIAAPTITPGLNEDESLQRLQKESDILQRTYAHYFDLTIINNEIDETIRHLEEAV
 ELVCTAPQWVPVSWVYTRTRPLEQKLISEEDLAANDILDYKDDDDKV

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, Protein Kinase
Protein Pathways	Tight junction
Full Length	Full L.

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GENE INFORMATION

Gene Name	CASK calcium/calmodulin dependent serine protein kinase [Homo sapiens (human)]
Official Symbol	CASK
Synonyms	CMG; FGS4; LIN2; TNRC8; hCASK; CAGH39; CAMGUK; MICPCH; MRXSNA
Gene ID	8573
mRNA Refseq	NM_003688.4
Protein Refseq	NP_003679.2
MIM	300172
UniProt ID	O14936

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