

Datasheet for ABIN7562583

## CASK Protein (AA 1-926) (His tag)



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### Overview

Quantity:	1 mg
Target:	CASK
Protein Characteristics:	AA 1-926
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CASK protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

### Product Details

Purpose:	Custom-made recombinat Cask Protein expressed in mammalian cells.
Sequence:	<p>MADDDVLFED VYELCEVIGK GPFSVVRRCI NRETGQQFAV KIVDVAKFTS SPGLSTEDLK</p> <p>REASICHMLK HPHIVELLET YSSDGMLYMV FEFMDGADLC FEIVKRADAG FVYSEAVASH</p> <p>YMRQILEALR YCHDNNIIHR DVKPHCVLLA SKENSAPVKL GGFGVAIQLG ESGLVAGGRV</p> <p>GTPHFMAPEV VKREPYGKPV DVWGCGVILF ILLSGCLPFY GTKERLFEGI IKGKYKMNPR</p> <p>QWSHISESAK DLVRRMLMLD PAERITVYEA LNHPWLKERD RYAYKIHLP TVEQLRKFN</p> <p>RRKLKGAVLA AVSSHKFNSF YGDPPEELPD FSEDPTSSGL LAAERAVSQV LDSLEEIHAL</p> <p>TDCSEKDLDF LHSVFDQHL HTLLDLYDKI NTKSSPQIRN PPSDAVQRAK EVLEEISCYP</p> <p>ENNDAKELKR ILTQPHFMAL LQTHDVAHE VYSDEALRVT PPPTSPYLNG DSPESANGDM</p> <p>DMENVTRVRL VQFQKNTDEP MGITLKMNEL NHCIVARIMH GGMIHRQGT L HVGDEIREIN</p> <p>GISVANQTVE QLQKMLREMR GSITFKIVPS YRTQSSSCER DSPSTSRQSP ANGHSSTNNS</p> <p>VSDLPSTTQP KGRQIYVRAQ FEYDPAKDDL IPCKEAGIRF RVGDIIQIIS KDDHNWWQ GK</p>

## Product Details

LENSKNGTAG LIPSPQLQEW RVACIAMKKT KQEQQASCTW FGKKKKQYKD KYLAKHNAVF  
DQLDLVTYEE VVKLPAFKRK TLVLLGAHGV GRRHIKNTLI TKHPDRFAYP IPHTTRPPKK  
DEENGKNYYF VSHDQMMQDI SNNEYLEYGS HEDAMYGTKL ETIRKIHEQG LIAILDVEPQ  
ALKVLRTAEF APFVVFIAAP TITPGLNEDE SLQRLQKESD VLQRTYAHYF DLTIINNEID  
ETIRHLEEA VLVCTAPQWV PVSQWVY **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**

### Characteristics:

#### Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

### Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

### Grade:

custom-made

## Target Details

### Target:

CASK

### Alternative Name:

Cask ([CASK Products](#))

### Background:

Peripheral plasma membrane protein CASK (EC 2.7.11.1) (Calcium/calmodulin-dependent serine protein kinase),FUNCTION: Multidomain scaffolding Mg(2+)-independent protein kinase that catalyzes the phosphotransfer from ATP to proteins such as NRXN1, and plays a role in synaptic transmembrane protein anchoring and ion channel trafficking (By similarity).  
Contributes to neural development and regulation of gene expression via interaction with the transcription factor TBR1. Binds to cell-surface proteins, including amyloid precursor protein,

## Target Details

neurexins, and syndecans. May mediate a link between the extracellular matrix and the actin cytoskeleton via its interaction with syndecan and with the actin/spectrin-binding protein 4.1. Component of the LIN-10-LIN-2-LIN-7 complex, which associates with the motor protein KIF17 to transport vesicles containing N-methyl-D-aspartate (NMDA) receptor subunit NR2B along microtubules (PubMed:10846156). {ECO:0000250|UniProtKB:O14936, ECO:0000269|PubMed:10749215, ECO:0000269|PubMed:10846156}.

Molecular Weight: 105.1 kDa

UniProt: [O70589](#)

Pathways: [Synaptic Vesicle Exocytosis](#)

## Application Details

Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

## Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months