

Datasheet for ABIN7548806

## CK1 epsilon Protein (AA 1-416) (His tag)



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### Overview

Quantity:	1 mg
Target:	CK1 epsilon (CSNK1E)
Protein Characteristics:	AA 1-416
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CK1 epsilon protein is labelled with His tag.

### Product Details

Purpose:	Custom-made recombinant CSNK1E Protein expressed in mammalian cells.
Sequence:	<p>MELRVGNKYR LGRKIGSGSF GDIYLGANIA SGEEVAIKLE CVKTKHPQLH IESKFYKMMQ</p> <p>GGVGIPSIKW CGAEGDYNVM VMELLGPSLE DLFNFCSRKF SLKTVLLAD QMISRIEYIH</p> <p>SKNFIHRDVK PDNFLMGLGK KGNLVYIIDF GLAKKYRDAR THQHIPPYREN KNLTGTARYA</p> <p>SINTHLGIEQ SRRDDLESLG YVLMYFNLGS LPWQGLKAAT KRQKYERISE KKMSTPIEVL</p> <p>CKGYPPSEFST YLNFCSRSLRF DDKPDYSYLR QLFRNLFHRQ GFSYDYVFDW NMLKFGAARN</p> <p>PEDVDRERRERE HEREERMGQL RGSATRALPP GPPTGATANR LRSAAEPVAS TPASRIQPAG</p> <p>NTSPRAISRV DRERKVSMLR HRGAPANVSS SDLTGRQEVN RIPASQTSVP FDHLGK <b>Sequence</b></p> <p><b>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.</b></p>
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

## Product Details

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### 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, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

### Grade:

custom-made

## Target Details

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### Target:

CK1 epsilon (CSNK1E)

### Alternative Name:

CSNK1E ([CSNK1E Products](#))

### Background:

Casein kinase I isoform epsilon (CKI-epsilon) (CKIε) (EC 2.7.11.1),FUNCTION: Casein kinases are operationally defined by their preferential utilization of acidic proteins such as caseins as substrates (Probable). Participates in Wnt signaling (PubMed:12556519, PubMed:23413191). Phosphorylates DVL1 (PubMed:12556519). Phosphorylates DVL2 (PubMed:23413191). Phosphorylates NEDD9/HEF1 (By similarity). Central component of the circadian clock (PubMed:16790549). In balance with PP1, determines the circadian period length, through the regulation of the speed and rhythmicity of PER1 and PER2 phosphorylation (PubMed:15917222, PubMed:16790549). Controls PER1 and PER2 nuclear transport and degradation (By similarity). Inhibits cytokine-induced granulocytic differentiation (PubMed:15070676). {ECO:0000250|UniProtKB:Q9JMK2, ECO:0000269|PubMed:12556519, ECO:0000269|PubMed:15070676, ECO:0000269|PubMed:15917222, ECO:0000269|PubMed:16790549, ECO:0000269|PubMed:23413191, ECO:0000305|PubMed:7797465}.

### Target Details

Molecular Weight:	47.3 kDa
UniProt:	<a href="#">P49674</a>
Pathways:	<a href="#">Hedgehog Signaling, M Phase</a>

### Application Details

Application Notes:	We expect the protein to work for functional studies. 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