

# Recombinant human Casein kinase 1 alpha/CSNK1A1 protein

Catalog Number: ATGP2610

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-337aa

### UniProt No.

P48729

### NCBI Accession No.

NP\_001883

### Alternative Names

Casein kinase 1 alpha 1, CK1, CK1a, CK1alpha, CKIa, CKIalpha, Clock regulator kinase

## PRODUCT SPECIFICATION

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### Molecular Weight

41 kDa (357aa)

### Concentration

0.5mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.4M urea, 10% glycerol

### Purity

> 80% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE, Denatured

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

Casein kinases are operationally defined by their preferential utilization of acidic proteins such as caseins as substrates. It can phosphorylate a large number of proteins. CSNK1A1 participates in Wnt signaling and phosphorylates CTNNB1 at 'Ser-45'. It may play a role in segregating chromosomes during mitosis. Recombinant human CSNK1a1 protein, fused to His-tag at N-terminus, was expressed in E. coli.

### Amino acid Sequence

MGSSHHHHHH SGLVPRGSH MASSSGSKAE FIVGGKYKLV RKIGSGSFGD IYLAINITNG EEVAVKLESQ KARHPQLLYE

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SKLYKILQGG VGIPHIRWYG QEKDYNVLVM DLLGPSLEDL FNFCRRFTM KTVLMLADQM ISRIEYVHTK NFIHRDIKPD  
NFLMGIGRHC NKLFLIDFGL AKKYRDNRTR QHIPYREDKN LTGTARYASI NAHLGIEQSR RDDMESLGYV LMYFNRTSLP  
WQGLKAATKK QKYEKISEKK MSTPVEVLCK GFPAEFAMYL NYCRGLRFEE APDYMYLRQL FRILFRTLNH QYDYTFDWTM  
LKQKAAQQA SSSGQGQQAQ TPTGKQTDKT KSNMKGF

## General References

Dubois T, Kerai P, et al. (2001). J Biol Chem. 276(22):18757-64.

## DATA

### SDS-PAGE

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

