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Recombinant human Casein kinase 1 alpha/CSNK1A1 protein

Catalog Number: ATGP2610

PRODUCT INFORMATION

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, CKla, CKlalpha, Clock regulator kinase

PRODUCT SPECIFICATION

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

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 SSGLVPRGSH MASSSGSKAE FIVGGKYKLV RKIGSGSFGD IYLAINITNG EEVAVKLESQ KARHPOLLYE



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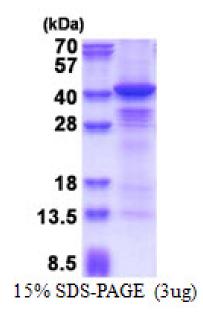
SKLYKILQGG VGIPHIRWYG QEKDYNVLVM DLLGPSLEDL FNFCSRRFTM KTVLMLADQM ISRIEYVHTK NFIHRDIKPD NFLMGIGRHC NKLFLIDFGL AKKYRDNRTR QHIPYREDKN LTGTARYASI NAHLGIEQSR RDDMESLGYV LMYFNRTSLP WQGLKAATKK QKYEKISEKK MSTPVEVLCK GFPAEFAMYL NYCRGLRFEE APDYMYLRQL FRILFRTLNH QYDYTFDWTM LKQKAAQQAA SSSGQGQQAQ TPTGKQTDKT KSNMKGF

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.

