Recombinant human Casein kinase 2 alpha 1/CSNK2A1 protein

Catalog Number: ATGP1455

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-391aa

UniProt No.
P68400

NCBI Accession No.
NP_001886

Alternative Names
Casein kinase 2 alpha 1, Casein kinase II subunit alpha, CK II alpha, CK2A1, Cka1, Cka2

PRODUCT SPECIFICATION

Molecular Weight
47.8 kDa (416aa) confirmed by MALDI-TOF

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 0.1M NaCl, 1mM DTT, 0.1mM PMSF

Purity
> 90% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE

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
CSNK2A1, also known as casein kinase II subunit alpha, are catalytic subunit of a constitutively active serine/threonine-protein kinase complex that phosphorylates a large number of substrates containing acidic residues C-terminal to the phosphorylated serine or threonine. It regulates numerous cellular processes, such as cell cycle progression, apoptosis and transcription, as well as viral infection. CSNK2A1 may act as a regulatory node which integrates and coordinates numerous signals leading to an appropriate cellular response. Recombinant human CSNK2A1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by

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using conventional chromatography.

Amino acid Sequence

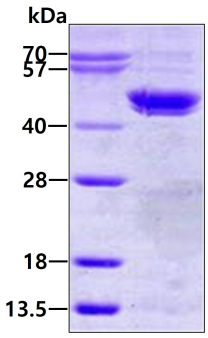
<MGSSHHHHHH SSGLVPRGSH MGSHM>MSGPV PSRARVYTDV NTHRPREYWD YESHVVEWGN QDDYQLVRKL GRGKYSEVFE AINITNNEKV VVKILKPVKK KKIKREIKIL ENLRGGPNII TLADIVKDPV SRTPALVFEH VNNTDFKQLY QTLTDYDIRF YMYEILKALD YCHSMGIMHR DVKPHNVMID HEHRKLRLID WGLAEFYHPG QEYNVRVASR YFKGPELLVD YQMYDYSLDM WSLGCMLASM IFRKEPFFHG HDNYDQLVRI AKVLGTEDLY DYIDKYNIEL DPRFNDILGR HSRKRWERFV HSENQHLVSP EALDFLDKLL RYDHQSRLTA REAMEHPYFY TVVKDQARMG SSSMPGGSTP VSSANMMSGI SSVPTPSPLG PLAGSPVIAA ANPLGMPVPA AAGAQQ

General References

Prudent R., et al. (2010) Cancer Res. 70:9865-9874
Deloukas P., et al. (2001) Nature. 414:865-871

DATA

SDS-PAGE



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