Recombinant Human casein kinase 1, alpha 1, His-tagged

Cat. No. CSNK1A1-513H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	CSNK1A1, 1-337aa Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	1-337 a.a.
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.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol
Molecular Mass	41 kDa (357aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MASSSGSKAE FIVGGKYKLV RKIGSGSFGD IYLAINITNG EEVAVKLESQ KARHPQLLYE 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

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	KSNMKGF
Purity	>80% by SDS - PAGE
Storage	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.
Concentration	0.5 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name	CSNK1A1 casein kinase 1, alpha 1 [Homo sapiens]
Official Symbol	CSNK1A1
Synonyms	CSNK1A1; casein kinase 1, alpha 1; casein kinase I isoform alpha; CK1; CK1a; CK1alpha; CKIa; CKIalpha; clock regulator kinase; CKI-alpha; down-regulated in lung cancer; HLCDGP1; PRO2975;
Gene ID	1452
mRNA Refseq	NM_001025105
Protein Refseq	NP_001020276
MIM	600505
UniProt ID	P48729
Chromosome Location	5q32

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Pathway	Beta-catenin phosphorylation cascade, organism-specific biosystem; Canonical Wnt signaling pathway, organism-specific biosystem; Degradation of beta-catenin by the destruction complex, organism-specific biosystem; FoxO family signaling, organism-specific biosystem; Hedgehog signaling events mediated by Gli proteins, organism-specific biosystem; Hedgehog signaling pathway, organism-specific biosystem; Hedgehog signaling pathway, conserved biosystem;
Function	ATP binding; nucleotide binding; protein binding; protein kinase activity; protein serine/threonine kinase activity; protein serine/threonine kinase activity;

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