

Recombinant Human CSNK1E, His-tagged

Cat. No. CSNK1E-27871TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 168-416 of Human CK1 epsilon with N terminal His tag. MWt ~31 kDa;
Species	Human
Source	E.coli
ProteinLength	168-416 a.a.
Description	The protein encoded by this gene is a serine/threonine protein kinase and a member of the casein kinase I protein family, whose members have been implicated in the control of cytoplasmic and nuclear processes, including DNA replication and repair. The encoded protein is found in the cytoplasm as a monomer and can phosphorylate a variety of proteins, including itself. This protein has been shown to phosphorylate period, a circadian rhythm protein. Two transcript variants encoding the same protein have been found for this gene.
Conjugation	HIS
Tissue specificity	Expressed in all tissues examined, including brain, heart, lung, liver, pancreas, kidney, placenta and skeletal muscle. Expressed in monocytes and lymphocytes but not in granulocytes.
Form	Lyophilised:Reconstitution with 115 µl aqua dest.

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Storage buffer	Preservative: None Constituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	(Amino acid sequence (Sequence determined by 5 Sequencing)) RENKNLTGTARYA SINTHLGIEQSRDD LESLGYVLMYFNLGSLPWQGLKAATKRQKYERISEKKM STPI EVLCKGYPSEFSTYLNFCRSLRFDDKPDYSYLRQLF RNLFHRQGFSYDYVFDWNM LKFGAARNPEDVDREH EREERMGQLRGSATRALPPGPPTGATANRLRSAAEP VA STPASRIQPAGNTSPRAISRVDREKVSMLHRGAPANVS SSDLTGRQEVSRIP ASQTSVPFDHLGK
Sequence Similarities	Belongs to the protein kinase superfamily. CK1 Ser/Thr protein kinase family. Casein kinase I subfamily. Contains 1 protein kinase domain.

GENE INFORMATION

Gene Name	CSNK1E casein kinase 1, epsilon [Homo sapiens]
Official Symbol	CSNK1E
Synonyms	CSNK1E; casein kinase 1, epsilon; casein kinase I isoform epsilon; HCKIE;
Gene ID	1454
mRNA Refseq	NM_001894
Protein Refseq	NP_001885
MIM	600863

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Uniprot ID	P49674
Chromosome Location	22q13.1
Pathway	Canonical Wnt signaling pathway, organism-specific biosystem; Cell Cycle, Mitotic, organism-specific biosystem; Centrosome maturation, organism-specific biosystem; Circadian Clock, organism-specific biosystem; Circadian rhythm - mammal, organism-specific biosystem;
Function	ATP binding; nucleotide binding; protein binding; protein kinase activity; protein serine/threonine kinase activity;

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