Recombinant Human CSNK1E

Cat. No. CSNK1E-27754TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Full length recombinant Human CK1 epsilon with N-terminal proprietary tag, 72kDa.
Species	Human
Source	Sf9 Cells
ProteinLength	416 amino acids
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.
Molecular Weight	72.000kDa inclusive of tags
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.
Biological activity	The Specific activity of CSNK1E-27754TH was determined to be 46 nmol/min/mg.
Form	Liquid

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Purity	by SDS-PAGE
Storage buffer	Preservative: NoneConstituents: 25% Glycerol, 50mM Tris HCl, 150mM Sodium chloride, 10mM Glutathione, 0.25mM DTT, 0.1mM EDTA, 0.1mM PMSF, pH 7.5
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
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
Uniprot ID	P49674
Chromosome Location	22q13.1

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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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