

Recombinant Human Casein Kinase 1, Epsilon, GST-tagged

Cat. No. CSNK1E-1007H Lot. No. (See product label)

SPECIFICATION

Product Overview	Full length recombinant human CSNK1E was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
Description	CSNK1E is a member of the CSNK1E family of serine/threonine protein kinases which play an important role in diverse cell processes, including DNA replication and repair. CSNK1E is a regulator of Yes-associated protein (YAP) transcription coactivator which is a key regulator of organ size and a candidate human oncogene. CSNK1E is activated by CCK2R and this then phosphorylates PKD2 at Ser244. Phosphorylation of PKD2 leads to its nuclear accumulation and efficient phosphorylation of nuclear PKD2 substrates in human gastric cancer cells. CSNK1E can phosphorylate topoisomerase (topo) IIalpha at serine-1106 and this regulates the enzyme activity and sensitivity to topo II-targeted drugs.
Applications	Kinase Assay; Western Blot
Molecular Weight	72 kDa
Expression System	Sf9 insect cells using baculovirus
Form	Recombinant protein stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, 25 % glycerol.

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Specific Activity	46 nmol/min/mg
Purity	> 75 %
Concentration	0.1 ug/ul
Sequences	Full length
Storage	Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Pathways	Canonical Wnt signaling pathway; Cell Cycle; Centrosome maturation; Circadian Clock; Circadian rhythm – mammal; Circadian rhythm pathway; FoxO family signaling; G2/M Transition; Hedgehog signaling events mediated by Gli proteins; Hedgehog signaling pathway; Loss of Nlp from mitotic centrosomes; Mitotic G2-G2/M phases; Recruitment of mitotic centrosome proteins and complexes; Wnt Signaling Pathway; p53 pathway
Full Length	Full L.

GENE INFORMATION

Gene Name	CSNK1E casein kinase 1, epsilon [Homo sapiens]
Official Symbol	CSNK1E
Synonyms	CSNK1E; casein kinase 1, epsilon; HCKIE; MGC10398; casein kinase I isoform epsilon; CKIe; CKI-epsilon; OTTHUMP00000199211; OTTHUMP00000199212; OTTHUMP00000199213; OTTHUMP00000199217; NP_001885.1; EC 2.7.11.1; NP_689407.1

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Gene ID	1454
mRNA Refseq	NM_001894
Protein Refseq	NP_001885
MIM	600863
UniProt ID	P49674
Chromosome Location	22q13.1
Function	ATP binding; nucleotide binding; protein binding; protein kinase activity; protein serine/threonine kinase activity
PDBrendering based on 1cki.	