CK1 epsilon Recombinant Protein | CK1epsilon recombinant protein

CK1 epsilon, Active

CATALOG #	HOST	APPLICATIONS
AAA73376	**Sf9 insect cells**	**Western Blot**

PRODUCT SYNONYMS

CK1 epsilon; Active; CSNK1E; HCKIE; MGC10398; CK1E; CK1epsilon recombinant protein

PRODUCT SPECIFICATIONS

Host	Sf9 insect cells
Form/Format	Recombinant protein stored in 50mM Tris-HCl, pH7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Applicable Applications for CK1epsilon recombinant protein	WB (Western Blot), Kinase Assay
Tag	GST
Species	Human
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store product at -70 degree 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.

IMAGES

SDS-PAGE
Purity: Sample Purity Data. For specific information on a given lot, see related technical data sheet.

Activity
Specific Activity: Sample Kinase Activity Plot. For specific information on a given lot, see related technical data sheet.

ADDITIONAL INFORMATION

Related Product Information for CK1epsilon recombinant protein	Full length recombinant human CK1epsilon was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. The gene accession number is NM_001894. CK1epsilon is a member of the CK1 family of serine/threonine protein kinases which play an important role in diverse cell processes, including DNA replication and repair. CK1epsilon is a regulator of Yes-associated protein (YAP) transcription coactivator which is a key regulator of organ size and a candidate human oncogene. CK1epsilon 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 (1). CKIepsilon can phosphorylate topoisomerase (topo) IIalpha at serine-1106 and this regulates the enzyme activity and sensitivity to topo II-targeted drugs (2).
Product Categories/Family for CK1epsilon recombinant protein	Protein Kinases; Cancer; Inflammation; Neurobiology; NfkB Pathway; Ser/Thr Kinases; WNT Signaling

References	1. von Blume J. et al: Phosphorylation at Ser244 by CK1 determines nuclear localization and substrate targeting of PKD2. EMBO J. 2007 Nov 14;26(22):4619-33. 2. Grozav, A G. et al: Casein kinase I delta/epsilon phosphorylates topoisomerase IIalpha at serine-1106 and modulates DNA cleavage activity. Nucleic Acids Res. 2009 Feb;37(2):382-92.

NCBI AND UNIPROT INFORMATION

NCBI GenBank Nucleotide #	NM_001894
Molecular Weight	~72kDa

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://stage.aaabiotech.com/ck1-epsilon-recombinant-protein-sf9-insect-cells-wb-western-blot-kinase-assay/73376