

Recombinant Human CK1-epsilon/CSNK1E Kinase

Catalog No.: RP03405LQ Recombinant

Sequence Information

Species Gene ID Swiss Prot Human 1454 P49674

Tags N-GST

Synonyms

CSNK1E; CKI-epsilon; CKIe; CK1e; CK1e; Casein kinase I isoform epsilon

Product Information

Source Purification
Baculovirus-Insect $\geq 80\%$ as
Cells determined by SDSPAGE; $\geq 80\%$ as

PAGE;≥ 80 % as determined by HPLC.

Calculated MW Observed MW

73.8 kDa 70-80 kDa

Endotoxin

< 1 EU/µg of the protein by LAL method.

Formulation

Supplied as a 0.22 μ m filtered solution in 50 mM Tris-HCl, 200 mM NaCl, 20% glycerol, 5 mM DTT, 0.1M Trehalose. (pH 7.5). Contact us for customized product form or formulation.

Reconstitution

Please use running water to thaw it quickly.

Contact

<u>a</u>		400-999-6126
\bowtie		cn.market@abclonal.com.cn
<u>~</u>	Т	www.abclonal.com.cn

Background

Casein kinase I isoform epsilon is an enzyme that in humans is encoded by the CSNK1E gene. 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 proteins of the Period family of circadian rhythm proteins. A homolog of this mammalian protein can be found in Drosophila melanogaster. Known as doubletime, this protein also plays a role in the phosphorylation of proteins involved in circadian rhythms. Two transcript variants encoding the same protein have been found for this gene. CSNK1E has been shown to interact with PER1 and AXIN1.

Basic Information

Description

Recombinant Human CK1-epsilon/CSNK1E Kinase is produced by Baculovirus-Insect Cells expression system. The target protein is expressed with sequence (Glu2-Lys416) of Human CSNK1E (Accession #P49674) fused with a N-GST tag.

Bio-Activity

The activity of $\mathsf{CK1}\epsilon$ is based on the MSA technology, and the content and ratio of the substrate and the product are directly separated and detected in real time and dynamically by the different migration rates of the substrate and the product after the enzymatic reaction.

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -70°C. This product is stable at \leq -70°C for up to 1 year from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature.

Aliquots below 10 μL are not advisable. Product must not be stored in diluted solutions. Avoid repeated freeze-thaw cycles.

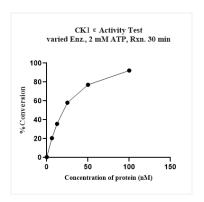
Avoid repeated freeze/thaw cycles.

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.



Recombinant Human CK1-epsilon/CSNK1E Kinase was resolved with SDS-PAGE under reducing (Lane 1) and non-reducing (Lane 2) conditions.



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