Recombinant Human CK1-epsilon/CSNK1E Kinase

Catalog No.: RP03405LQ

Sequence Information

Species
Human

Gene ID
1454

Swiss Prot
P49674

Tags
N-GST

Synonyms
CSNK1E; CKI-epsilon; CKIe; CK1ε; CK1e; Casein kinase I isoform epsilon

Product Information

Source
Baculovirus-Insect Cells

Purification
≥ 80 % as determined by SDS-PAGE;≥ 80 % as determined by HPLC.

Calculated MW
73.8 kDa

Observed MW
70-80 kDa

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

Formulation
Supplied as a 0.22 μm 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.

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.

Activity
The activity of CK1ε 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
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -70℃

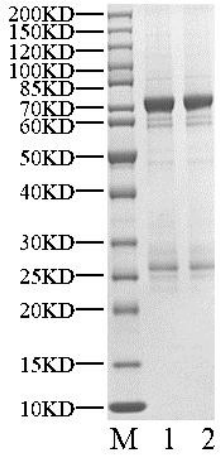
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

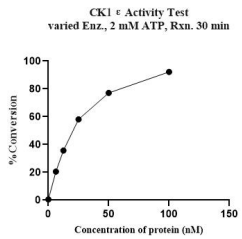
400-999-6126
cn.market@abclonal.com.cn
www.abclonal.com.cn

For research use only. Not for therapeutic or diagnostic purposes.
Please visit http://abclonal.com for a complete listing of recommended products.

Validation Data



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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