

Recombinant Human CK1-delta/CSNK1D Kinase

Catalog No.: RP03403LQ

Sequence Information

Species **Gene ID**
Human 1453

Swiss Prot **Tags**
P48730 N-GST

Synonyms

CSNK1D; CK1δ; HCKID; CKI-delta;
CKId; CK1d; Casein kinase I
isoform delta

Product Information

Source **Purification**
Baculovirus- ≥ 85% as
Insect Cells determined by
 SDS-PAGE;≥
 85% as
 determined by
 HPLC.

Calculated MW **Observed MW**
73.8 kDa 60-80 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, 150
mM NaCl, 5% glycerol, 5 mM DTT,
0.1 M 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 delta also known as CKI-delta or CK1δ is an enzyme that in humans is encoded by the gene CSNK1D. It is a member of the CK1 (formerly named casein kinase 1) family of serine/threonine specific eukaryotic protein kinases encompassing seven distinct isoforms (CK1α, γ1-3, δ, ε) as well as various post-transcriptionally processed splice variants (transcription variants, TVs) in mammals. Like eukaryotic protein kinases (ePKs) the different isoforms of the CK1 family consist of a N-terminal and a C-terminal lobe (N- and C-lobe, respectively), which are connected via a hinge region. CK1δ is involved in the circadian rhythm, DNA damage and cellular stress, microtubule dynamics, cell cycle progression, genomic stability, mitosis and meiosis. CK1δ is also involved in the regulation of microtubule polymerization and stability of the spindle apparatus and centrosomes during mitosis by directly phosphorylating α-, β-, and γ-tubulin.

Basic Information

Description

Recombinant Human CK1-delta/CSNK1D Kinase is produced by Baculovirus-Insect Cells expression system. The target protein is expressed with sequence (Glu2-Arg415) of Human CSNK1D (Accession #P48730) fused with a N-GST tag.

Activity

The activity of CSNK1D 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°C

Operational Notes

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

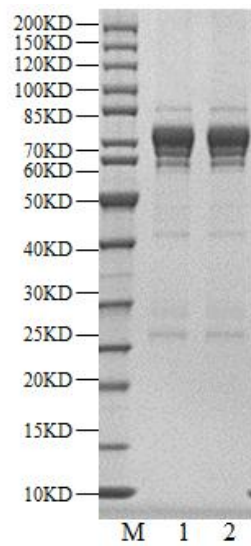
Contact

☎ | 400-999-6126

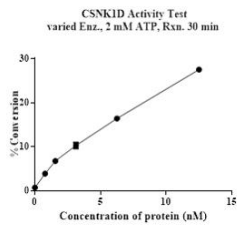
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Validation Data



Recombinant Human CK1-delta/CSNK1D Kinase was resolved with SDS-PAGE under reducing (Lane 1) and non-reducing (Lane 2) conditions.



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