

# Recombinant Human CK1-gamma 1/CSNK1G1 Kinase

Catalog No.: RP03442LQ Recombinant

# **Sequence Information**

Species Gene ID Swiss Prot Human 53944 Q9HCP0

Tags N-GST

**Synonyms** 

CSNK1G1; CKI-gamma 1; CK1γ1; Casein kinase I isoform gamma-1

# **Product Information**

SourcePurificationBaculovirus-Insect≥ 90 % asCellsdetermined by

determined by SDS-PAGE;≥ 90 % as determined by HPLC.

Calculated MW Observed MW

75.0 kDa 70-85 kDa

### **Endotoxin**

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

### **Formulation**

Supplied as a 0.22  $\mu$ m filtered solution in 50 mM Tris-HCl, 200 mM NaCl, 20%glycerol, 1 mM DTT. (pH 7.5). Contact us for customized product form or formulation.

### Reconstitution

Please use running water to thaw it quickly.

## Contact

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# Background

Casein kinase I isoform gamma-1 is a member of the CK1 (formerly named casein kinase 1) family of serine/threonine specific eukaryotic protein kinases encompassing seven distinct isoforms (CK1 $\alpha$ ,  $\gamma$ 1-3,  $\delta$ ,  $\epsilon$ ) as well as various post-transcriptionally processed splice variants (transcription variants, TVs) in mammalians. 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. The gamma-1 isoform is involved in growth and morphogenesis of eukaryotic cells.

### **Basic Information**

#### Description

Recombinant Human CK1-gamma 1/CSNK1G1 Kinase is produced by Baculovirus-Insect Cells expression system. The target protein is expressed with sequence (Asp2-Lys422) of Human CSNK1G1 (Accession #Q9HCP0) fused with a N-GST tag.

### **Bio-Activity**

The activity of CSNK1G1 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.

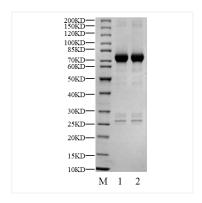
Aliquots below 10  $\mu$ L are not advisable. Product must not be stored in diluted solutions. Avoid repeated freeze-thaw cycles.

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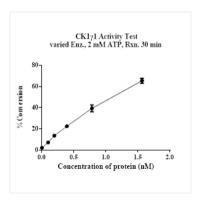
### **Operational Notes**

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

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Recombinant Human CK1-gamma 1/CSNK1G1 Kinase was resolved with SDS-PAGE under reducing (Lane 1) and non-reducing (Lane 2) conditions.



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