

# Recombinant Human CK1-gamma 2/CSNK1G2 Kinase

Catalog No.: RP03324LQ Recombinant

# **Sequence Information**

**Species Gene ID Swiss Prot** Human 1455 P78368

# Tags

N-His

### **Synonyms**

CSNK1G2; CK1g; CK1G2; CKI-gamma 2; Casein kinase I isoform gamma-2

# **Product Information**

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

#### Calculated MW Observed MW

42.0 kDa 35-45 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-2 (CK1g) ecoded by the CSNK1G2 gene is a member of the large casein kinase I (CKI) family, which belongs to the intracellular serine/threonine kinases. The CKI family includes several other isoforms (alpha, beta, gamma, and delta). Casein kinase 1 gamma (CK1gamma) is associated with the cell membrane and binds to LRP. CK1gamma was found to be needed for Wnt signaling through LRP. CSNK1G2 inhibits Smad3-mediated TGF-beta responses including induction of target genes and cell growth arrest, and this inhibition is dependent on CSNK1G2 kinase activity. The overexpression of CSNK1G2 in human cancers, may act as an oncoprotein during tumorigenesis.

## **Basic Information**

### **Description**

Recombinant Human CK1-gamma 2/CSNK1G2 Protein is produced by Baculovirus-Insect Cells expression system. The target protein is expressed with sequence (Lys5-Asp353) of Human CSNK1G2 (Accession #P78368) fused with a N-His tag.

#### **Bio-Activity**

The activity of CK1g 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

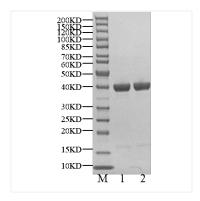
Store at  $-70^{\circ}$ C. This product is stable at  $\leq -70^{\circ}$ C for up to 1 year from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature.

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

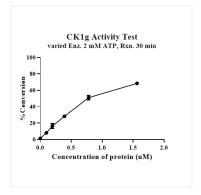
Avoid repeated freeze/thaw cycles.

#### **Operational Notes**

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



Recombinant Human CK1-gamma 2/CSNK1G2 Kinase was determined by SDS-PAGE under reducing (R) and non-reducing (NR) conditions.



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