

Recombinant Human CK1-gamma 2/CSNK1G2 Kinase

Catalog No.: RP03324LQ

Sequence Information

Species **Gene ID**
Human 1455

Swiss Prot **Tags**
P78368 N-His

Synonyms

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

Product Information

Source **Purification**
Baculovirus-Insect Cells ≥ 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 μm 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.

Background

Casein kinase I isoform gamma-2 (CK1g) encoded 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.

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

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.

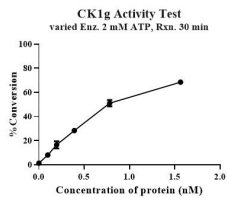
Contact

☎ | 400-999-6126

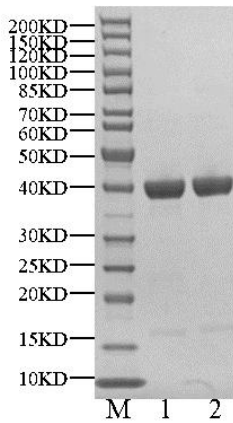
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Validation Data



The activity of CK1γ 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.



Recombinant Human CK1-γ2/CSNK1G2 Kinase was determined by SDS-PAGE under reducing (R) and non-reducing (NR) conditions.