

Recombinant Human Casein kinase I isoform gamma-2 Protein

Cat.NO.: TP05068

3th Edition

Synonyms:Casein kinase I isoform gamma-2; CK1G2; CSNK1G2

Description:Casein kinase I gamma 2 isoform (CSNK1G2), a member of the large casein kinase I (CKI) subfamily, protein kinase superfamily. It may affect the development of brain, and associate with vesicular trafficking and neurotransmitter releasing from small synaptic vesicles. The CKI family includes several other isoforms (alpha, beta, gamma, and delta). Dishevelled (Dsh), another positive component of the Wnt pathway, becomes phosphorylated in response to Wnt signals. All the CKI isoforms, with the exception of gamma, increase the phosphorylation of Dsh in vivo. Casein kinase 1 gamma (CK1gamma, or CSNK1G) is associated with the cell membrane and binds to LRP. CK1gamma was found to be needed for Wnt signaling through Wnt receptor 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. In addition, as an MTA1s-binding protein, CSNK1G2 could further potentiate the estrogen receptor (ER) corepressive function of MTA1s.

Form:PBS

Molecular Weight:47.6 kDa

Sequences:Met 18-Lys415

Purity:> 95% by HPLC

Concentration:

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.