

Product datasheet for **TP721005**

CSNK1G2 (NM_001319) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Human casein kinase 1, gamma 2 (CSNK1G2)
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	Met18-Lys415
Tag:	N-His
Predicted MW:	47.6 kDa
Purity:	>95% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	Provided lyophilized from a 0.2 µm filtered solution of 20 mM Tris-HCl, 150 mM NaCl
Endotoxin:	Endotoxin level is < 0.1 ng/µg of protein (< 1 EU/µg)
Storage:	Store at -80°C.
Stability:	Stable for at least 3 months from date of receipt under proper storage and handling conditions.
RefSeq:	NP_001310
Locus ID:	1455
UniProt ID:	P78368
RefSeq Size:	2921
Cytogenetics:	19p13.3
RefSeq ORF:	1245
Synonyms:	CK1g2



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Summary:

Serine/threonine-protein kinase. Casein kinases are operationally defined by their preferential utilization of acidic proteins such as caseins as substrates. It can phosphorylate a large number of proteins. Participates in Wnt signaling. Phosphorylates COL4A3BP/CERT, MTA1 and SMAD3. Involved in brain development and vesicular trafficking and neurotransmitter releasing from small synaptic vesicles. Regulates fast synaptic transmission mediated by glutamate. SMAD3 phosphorylation promotes its ligand-dependent ubiquitination and subsequent proteasome degradation, thus inhibiting SMAD3-mediated TGF-beta responses. Hyperphosphorylation of the serine-repeat motif of COL4A3BP/CERT leads to its inactivation by dissociation from the Golgi complex, thus down-regulating ER-to-Golgi transport of ceramide and sphingomyelin synthesis. Triggers PER1 proteasomal degradation probably through phosphorylation.[UniProtKB/Swiss-Prot Function]

Protein Families:

Druggable Genome, Protein Kinase

Protein Pathways:

Hedgehog signaling pathway