

# Recombinant Human CSNK1G2 Protein (K5-D353), His tagged

Cat. No. CSNK1G2-1191H Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant Human 6His-TEV-CK1g(K5-D353) Protein was expressed in Insect cell.
<b>Species</b>	Human
<b>Source</b>	Insect Cells
<b>ProteinLength</b>	K5-D353
<b>Description</b>	<p>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.</p>
<b>Form</b>	Liquid
<b>Endotoxin</b>	< 0.01 EU per µg of the protein

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<b>Purity</b>	90%
<b>Stability</b>	Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade.
<b>Storage</b>	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
<b>Storage Buffer</b>	50 mM Tris-HCl (pH7.5), 200 mM NaCl, 20% glycerol
<b>Shipping</b>	It is shipped out with blue ice.

## GENE INFORMATION

<b>Gene Name</b>	CSNK1G2 casein kinase 1, gamma 2 [ Homo sapiens (human) ]
<b>Official Symbol</b>	CSNK1G2
<b>Synonyms</b>	CSNK1G2; casein kinase 1, gamma 2; casein kinase I isoform gamma-2; CK1g2; CKI-gamma 2; casein kinase 1 isoform gamma-2;
<b>Gene ID</b>	1455
<b>mRNA Refseq</b>	NM_001319
<b>Protein Refseq</b>	NP_001310
<b>MIM</b>	602214
<b>UniProt ID</b>	P78368

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