

Recombinant Human CSNK1G2 Protein (K5-D353), Tag Free

Cat. No. CSNK1G2-1190H **Lot. No.** (See product label)

SPECIFICATION

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

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Purity	90%
Stability	Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade.
Storage	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.
Storage Buffer	50 mM Tris-HCl (pH7.5), 200 mM NaCl, 20% glycerol
Shipping	It is shipped out with blue ice.

GENE INFORMATION

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

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