

Datasheet for ABIN7318105

Casein Kinase 1 gamma 2 Protein (His tag)[Go to Product page](#)

Overview

Quantity:	50 µg
Target:	Casein Kinase 1 gamma 2 (CSNK1G2)
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Casein Kinase 1 gamma 2 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human CSNK1G2 Protein (His Tag)
Sequence:	Met 18-Lys415
Characteristics:	Recombinant Human Casein kinase I isoform gamma-2 is produced by our E.coli expression system and the target gene encoding Met18-Lys415 is expressed with a 6His tag at the N-terminus.
Purity:	> 90 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	Casein Kinase 1 gamma 2 (CSNK1G2)
Alternative Name:	CSNK1G2 (CSNK1G2 Products)
Background:	Background: 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

Target Details

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 (CK1 gamma, or CSNK1G) is associated with the cell membrane and binds to LRP. CK1 gamma 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.

Synonym: Casein kinase I isoform gamma-2, CK1 G2, CSNK1G2

Molecular Weight:	47.6 kDa
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Pathways:	Hedgehog Signaling
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Application Details

Restrictions:	For Research Use only
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Handling

Format:	Frozen, Liquid
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Buffer:	Supplied as a 0.2 µm filtered solution of 20 mM Tris, 500 mM NaCl, 10 % Glycerol, 1 mM DTT, pH 8.0.
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Storage:	-20 °C
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Storage Comment:	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
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