

Casein Kinase I gamma-2 Protein, Human (His)

Cat. No.:	HY-P7741
Synonyms:	rHuCasein kinase I isoform gamma-2, His; Casein kinase I isoform gamma-2; CK1G2; CSNK1G2
Species:	Human
Source:	E. coli
Accession:	P78368 (F92-K415)
Gene ID:	1455
Molecular Weight:	Approximately 55.0 kDa

PROPERTIES

AA Sequence	<pre> HHHHHMSKA GGGRSSHGIR SSGTSSGVLM VGPNFRVGGK IGCGNFGELR LGKNLYTNEY VAIKLEPIKS RAPQLHLEYR FYKQLSATEG VPQVYYFGPC GKYNAMVLEL LGPSLEDLFD LCDRTFTLKT VLMIAIQLIT RMEYVHTKSL IYRDVKPENF LVGRPGTKRQ HAIHIIDFGL AKEYIDPETK KHIPYREHKS LTGTARYMSI NTHLGKEQSR RDDLEALGHM FMYFLRGS LP WQGLKADTLK ERYQKIGDTK RATPIEVLCE NFPEEMATYL RYVRRLDFFE KPDYDYLRKL FTDLFDRSGF VFDYEYDWAG KPLPTPIGTV HTDLPSQPQL RDKTQPHSKN QALNSTNGEL NADDPTAGHS NAPITAPAEV EVADETKCCC FFKRRKRKSL QRHK </pre>
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Solution.
Formulation	Supplied as a 0.2 µm filter solution of 20 mM Tris, 500 mM NaCl, 10% Glycerol, 1 mM DTT, pH 8.0.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background

Casein kinase I gamma 2 isoform (CSNK1G2) is a member of the casein kinase I (CKI) subfamily. The casein kinase I (CKI) family of serine/threonine kinases is ubiquitously expressed in a wide range of eukaryotes, including yeast and humans as well as in plants.

This kinase family also includes other isoforms (alpha, beta, gamma, and delta). both CKI isoforms except for gamma isoform, can increase the phosphorylation of Dsh in vivo.

CSNK1G2 is overexpressed in human cancers, it may act as an oncoprotein during tumorigenesis. CSNK1G2 can acts as an oncoprotein during tumorigenesis. In addition, we found that CKI- γ 2 can phosphorylate MTA1s, but not ER, in an anti-estrogen-dependent manner

REFERENCES

[1]. R M McKay, et al. The casein kinase I family in Wnt signaling. *Dev Biol.* 2001 Jul 15;235(2):388-96.

[2]. Sandip K Mishra, et al. Metastatic tumor antigen 1 short form (MTA1s) associates with casein kinase I-gamma2, an estrogen-responsive kinase. *Oncogene.* 2004 May 27;23(25):4422-9.

Caution: Product has not been fully validated for medical applications. For research use only.

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