

## Recombinant Human casein kinase 2, beta polypeptide

**Cat. No.** CSNK2B-23H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human Casein Kinase 2 beta is a non-glycosylated polypeptide having a molecular mass of 24.9 kDa. Casein Kinase 2 is purified by proprietary chromatographic techniques.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	The Casein kinase 2 (EC 2.7.11.1) is a serine/threonine-selective protein kinase that is a tetramer of two alpha subunits and two beta subunits. The alpha subunits have the catalytic kinase domain. Casein kinase 2 has been implicated in cell cycle control, DNA repair, regulation of the circadian rhythm and other cellular processes. Casein kinase 2 activity has been reported to be activated following Wnt signaling pathway activation. A Pertussis toxin-sensitive G protein and Disheveled appear to be an intermediary between Wnt-mediated activation of the Frizzled receptor and activation of casein kinase 2.
<b>Unit Definition</b>	1U = 1µmol/min at 37 degree C) using the synthetic peptide RRRDDDSDDD.
<b>Physical Appearance</b>	Sterile Filtered White lyophilized (freeze-dried) powder.
<b>Purity</b>	Greater than 95% as determined by SDS-PAGE.
<b>Formulation</b>	CK2 lyophilized from 25mM Tris-HCl, 500mM NaCl, 1mM DTT, 1mM EDTA, protease inhibitor cocktail, pH 8.5.

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<b>Solubility</b>	Solubilize in distilled H <sub>2</sub> O or 50% glycerol.
<b>Biological Activity</b>	Specific activity > 1U/mg.
<b>Storage</b>	Lyophilized CK2 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution CK2 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please avoid freeze-thaw cycles.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">CSNK2B casein kinase 2, beta polypeptide [ Homo sapiens ]</a>
<b>Synonyms</b>	CSNK2B; casein kinase 2, beta polypeptide; G5A; CK2B; CK2N; MGC138222; MGC138224; phosvitin; OTTHUMP00000029063; OTTHUMP00000029064; Casein kinase II beta subunit; alternative name: G5a, phosvitin; CSK2B; OTTHUMP00000029060; Phosvitin
<b>Gene ID</b>	<a href="#">1460</a>
<b>mRNA Refseq</b>	<a href="#">NM_001320</a>
<b>Protein Refseq</b>	<a href="#">NP_001311</a>
<b>MIM</b>	<a href="#">115441</a>
<b>UniProt ID</b>	<a href="#">P67870</a>
<b>Chromosome Location</b>	6p21-p12; 6p21.3

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**Pathway**

Adherens junction; Tight junction; Wnt signaling pathway

**Function**

identical protein binding; protein domain specific binding; protein kinase regulator activity; protein serine/threonine kinase activity

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