

Recombinant Human casein kinase 2, beta polypeptide

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

SPECIFICATION

Product Overview	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.
Species	Human
Source	E.coli
Description	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.
Unit Definition	1U = 1μmol/min at 37 degree C) using the synthetic peptide RRRDDDSDDD.
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Purity	Greater than 95% as determined by SDS-PAGE.
Formulation	CK2 lyophilized from 25mM Tris-HCl, 500mM NaCl, 1mM DTT, 1mM EDTA, protease inhibitor cocktail, pH 8.5.

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Solubility	Solubilize in distilled H ₂ O or 50% glycerol.
Biological Activity	Specific activity > 1U/mg.
Storage	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

Gene Name	CSNK2B casein kinase 2, beta polypeptide [Homo sapiens]
Synonyms	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
Gene ID	1460
mRNA Refseq	NM_001320
Protein Refseq	NP_001311
MIM	115441
UniProt ID	P67870
Chromosome Location	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

PDB rendering based on 1jwh.

