

Recombinant Human casein kinase 2, alpha 1 polypeptide

Cat. No. CSNK2A1-21H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human Casein Kinase 2 alpha is a non-glycosylated polypeptide having a molecular mass of 45.1 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. Mice that lack casein kinase 2 alpha prime have a defect in the morphology of developing sperm.
Unit Definition	No protease activity detectable, specific activity > 1.320 U/mg (1U = 1 μ mol/min at 37 degree C) using the synthetic peptide RRRDDDSDDD.
Physical Appearance	Sterile Filtered clear solution.
Purity	Greater than 99% as determined by SDS-PAGE.

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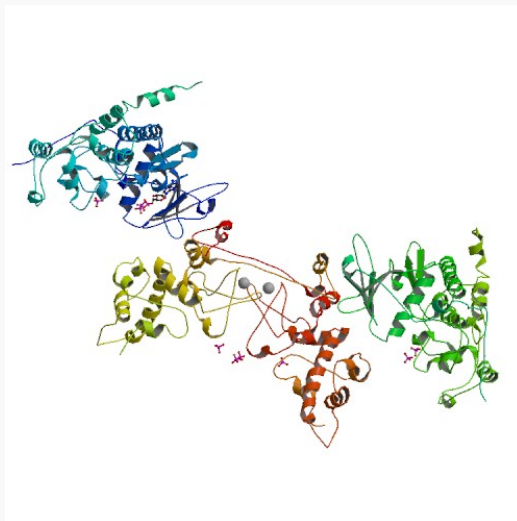
Formulation	CK2 (0.4 mg/ml) is supplied in 25mM Tris-HCl, 500mM NaCl, 1mM DTT, 500μM PMSF, 50% glycerol, pH 8.5.
Storage	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. Avoid multiple freeze-thaw cycles.
GENE INFORMATION	
Gene Name	CSNK2A1 casein kinase 2, alpha 1 polypeptide [Homo sapiens]
Synonyms	CSNK2A1; casein kinase 2, alpha 1 polypeptide; CKII; CK2A1; casein kinase II alpha 1 subunit; protein kinase CK2; CK2 catalytic subunit alpha; EC 2.7.11.1; OTTHUMP00000029925; OTTHUMP00000029926
Gene ID	1457
mRNA Refseq	NM_001895
Protein Refseq	NP_001886
MIM	115440
UniProt ID	P68400
Chromosome Location	20p13
Pathway	Adherens junction; Tight junction; Wnt signaling pathway
Function	ATP binding; nucleotide binding; protein N-terminus binding; protein serine/threonine kinase activity; transferase activity

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