

## CSNK2A1 Human, His

**Description:** CK2A Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain encoding the sequence of 411 amino acids and having a molecular mass of 47.3 kDa. Casein Kinase 2 alpha subunit is purified by proprietary chromatographic techniques.

**Catalog #:** PKPS-232

**Synonyms:** Casein kinase II subunit alpha, EC 2.7.11.1, CK II, CK2A1, CKII alpha, CSNK2A1, PKCK2, CSK21.

For research use only.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile Filtered clear solution.

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSH MSGPVPSRAR VYTDVNTHRP  
REYWDYESHV VEWGNQDDYQLVRKLGRGKY SEVFEAINIT NNEKVVKIL KPVKKKKIKR  
EIKILENLRG GPNITLADI VKDPVSRTPA LVFEHVNNTD FKQLYQTLTD YDIRFYMYEI  
LKALDYCHSM GIMHRDVKPH NVIMIDHEHRK LRLIDWGLAE FYHPGQEYNV RVASRYFKGP  
ELLVDYQMYD YSL

**Purity:** Greater than 90% as determined by SDS-PAGE.

**Formulation:**

CSNK2A1 is supplied in 20mM Tris pH-8.0 , 500mM NaCl, 1mM DTT and 50% glycerol.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Introduction:**

The Casein kinase 2 (EC2.7.11.1) 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 Dishevelled 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.

**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.

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