

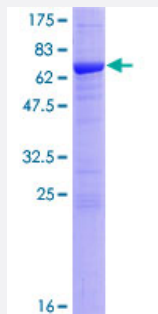
Full-Length

# CSNK2A1 (Human) Recombinant Protein (P01)

Catalog # H00001457-P01

Size 25 ug, 10 ug

## Applications



## Specification

### Product Description

Human CSNK2A1 full-length ORF ( NP\_001886.1, 1 a.a. - 391 a.a.) recombinant protein with GST-tag at N-terminal.

### Sequence

MSGPVPSRARVYTDVNTHRPREYWDYESHVVEWGNQDDYQLVRKLGRGKYSEVF EAINITNNEK  
VVVKILKPVK KKKIKREIKILENLRGGPNITLADIVKDPVSRTPALVFEHVNNTDFKQLYQTLTDYDIR  
FYMEILKALDYCHSMGIMHRDVKPHNV MIDHEHRKLRLIDWGLAEFYHPGQEYNVRVASRYFKGP  
ELLVDYQMYDYS LDMWSLGCMLAS MIFRKEPFFHGH DNYDQLVRIAKVLGTEDLYDYIDKYNIELD  
PRFNDILGRHSRKRWERFVHSENQHLVSPEALDFLDKLLRYDHQSRLTAREAMEHPYFYTVVKD  
QARMGSSSMPGGSTPVSSANMMSGISSVPTSP LGLAGSPVIAAANPLGMPVPAAAGAQQ

### Host

Wheat Germ (in vitro)

### Theoretical MW (kDa)

71.5

### Interspecies Antigen Sequence

Mouse (99); Rat (98)

### Preparation Method

[in vitro wheat germ expression system](#)

### Purification

Glutathione Sepharose 4 Fast Flow

### Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

### Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

**Storage Instruction**

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

**Note**

Best use within three months from the date of receipt of this protein.

## Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

## Gene Info — CSNK2A1

**Entrez GeneID**[1457](#)**GeneBank Accession#**[NM\\_001895.3](#)**Protein Accession#**[NP\\_001886.1](#)**Gene Name**

CSNK2A1

**Gene Alias**

CK2A1, CKII

**Gene Description**

casein kinase 2, alpha 1 polypeptide

**Omim ID**[115440](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

Casein kinase II is a serine/threonine protein kinase that phosphorylates acidic proteins such as casein. The kinase exists as a tetramer and is composed of an alpha, an alpha-prime, and two beta subunits. The alpha subunits contain the catalytic activity while the beta subunits undergo autophosphorylation. The protein encoded by this gene represents the alpha subunit. While this gene is found on chromosome 20, a related transcribed pseudogene is found on chromosome 11. Three transcript variants encoding two different proteins have been found for this gene. [provided by RefSeq]

**Other Designations**

CK2 catalytic subunit alpha|OTTHUMP00000029925|OTTHUMP00000029926|casein kinase II alpha 1 subunit|casein kinase II alpha subunit|protein kinase CK2

## Pathway

- [Adherens junction](#)
- [Tight junction](#)
- [Wnt signaling pathway](#)

## Disease

- [Bipolar Disorder](#)
- [Cardiovascular Diseases](#)
- [Colorectal Neoplasms](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Psychiatric Status Rating Scales](#)
- [Psychotic Disorders](#)
- [Schizophrenia](#)