

# Recombinant Human CSNK2A1

**Cat. No.** CSNK2A1-28001TH    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant full length CKII alpha protein (Human), was expressed by baculovirus in Sf9 insect cells using a N-terminal tag, MW 70kDa.                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Description</b>      | 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. |
| <b>Form</b>             | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Purity</b>           | >95% by SDS-PAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Storage buffer</b>   | Preservative: None<br>Constituents: 25% Glycerol, 50mM Tris HCl, 150mM Sodium chloride, 0.25mM DTT, 0.1mM EGTA, 0.1mM EDTA, 0.1mM PMSF, pH 7.5                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Storage</b>          | Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Sequence</b>         | Belongs to the protein kinase superfamily. Ser/Thr protein kinase family. CK2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

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|                            |                                                                                                                                                                                                                                                 |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Similarities</b>        | subfamily.Contains 1 protein kinase domain.                                                                                                                                                                                                     |
| <b>Full Length</b>         | Full L.                                                                                                                                                                                                                                         |
| <b>GENE INFORMATION</b>    |                                                                                                                                                                                                                                                 |
| <b>Gene Name</b>           | CSNK2A1 casein kinase 2, alpha 1 polypeptide [ Homo sapiens ]                                                                                                                                                                                   |
| <b>Official Symbol</b>     | CSNK2A1                                                                                                                                                                                                                                         |
| <b>Synonyms</b>            | CSNK2A1; casein kinase 2, alpha 1 polypeptide; casein kinase II subunit alpha;                                                                                                                                                                  |
| <b>Gene ID</b>             | 1457                                                                                                                                                                                                                                            |
| <b>mRNA Refseq</b>         | NM_001895                                                                                                                                                                                                                                       |
| <b>Protein Refseq</b>      | NP_001886                                                                                                                                                                                                                                       |
| <b>MIM</b>                 | 115440                                                                                                                                                                                                                                          |
| <b>Uniprot ID</b>          | P68400                                                                                                                                                                                                                                          |
| <b>Chromosome Location</b> | 20p13                                                                                                                                                                                                                                           |
| <b>Pathway</b>             | Adherens junction, organism-specific biosystem; Adherens junction, conserved biosystem; Alpha-synuclein signaling, organism-specific biosystem; Axon guidance, organism-specific biosystem; BCR signaling pathway, organism-specific biosystem; |
| <b>Function</b>            | ATP binding; beta-catenin binding; nucleotide binding; protein N-terminus binding; protein binding;                                                                                                                                             |

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