

## Recombinant Human CSNK1E

Cat. No. CSNK1E-27754TH    Lot. No. (See product label)

### SPECIFICATION

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Overview    | Full length recombinant Human CK1 epsilon with N-terminal proprietary tag, 72kDa.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Species             | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Source              | Sf9 Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| ProteinLength       | 416 amino acids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Description         | <p>The protein encoded by this gene is a serine/threonine protein kinase and a member of the casein kinase I protein family, whose members have been implicated in the control of cytoplasmic and nuclear processes, including DNA replication and repair.</p> <p>The encoded protein is found in the cytoplasm as a monomer and can phosphorylate a variety of proteins, including itself. This protein has been shown to phosphorylate period, a circadian rhythm protein. Two transcript variants encoding the same protein have been found for this gene.</p> |
| Molecular Weight    | 72.000kDa inclusive of tags                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Tissue specificity  | Expressed in all tissues examined, including brain, heart, lung, liver, pancreas, kidney, placenta and skeletal muscle. Expressed in monocytes and lymphocytes but not in granulocytes.                                                                                                                                                                                                                                                                                                                                                                           |
| Biological activity | The Specific activity of CSNK1E-27754TH was determined to be 46 nmol/min/mg.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Form                | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

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|                              |                                                                                                                                                      |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>                | by SDS-PAGE                                                                                                                                          |
| <b>Storage buffer</b>        | Preservative: None<br>Constituents: 25% Glycerol, 50mM Tris HCl, 150mM Sodium chloride, 10mM Glutathione, 0.25mM DTT, 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 Similarities</b> | Belongs to the protein kinase superfamily. CK1 Ser/Thr protein kinase family. Casein kinase I subfamily. Contains 1 protein kinase domain.           |

## GENE INFORMATION

|                            |                                                                           |
|----------------------------|---------------------------------------------------------------------------|
| <b>Gene Name</b>           | CSNK1E casein kinase 1, epsilon [ Homo sapiens ]                          |
| <b>Official Symbol</b>     | CSNK1E                                                                    |
| <b>Synonyms</b>            | CSNK1E; casein kinase 1, epsilon; casein kinase I isoform epsilon; HCKIE; |
| <b>Gene ID</b>             | 1454                                                                      |
| <b>mRNA Refseq</b>         | NM_001894                                                                 |
| <b>Protein Refseq</b>      | NP_001885                                                                 |
| <b>MIM</b>                 | 600863                                                                    |
| <b>Uniprot ID</b>          | P49674                                                                    |
| <b>Chromosome Location</b> | 22q13.1                                                                   |

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|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Pathway</b>  | Canonical Wnt signaling pathway, organism-specific biosystem; Cell Cycle, Mitotic, organism-specific biosystem; Centrosome maturation, organism-specific biosystem; Circadian Clock, organism-specific biosystem; Circadian rhythm - mammal, organism-specific biosystem; |
| <b>Function</b> | ATP binding; nucleotide binding; protein binding; protein kinase activity; protein serine/threonine kinase activity;                                                                                                                                                      |

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