

Recombinant Human CSNK2A1

Cat. No. CSNK2A1-27173TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human CKII alpha; amino acids 1-391, MWt 45.1kDa.
Species	Human
Source	E.coli
ProteinLength	1-391 a.a.
Description	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.
Biological activity	Activity: >1 U/mg1 Unit is defined as 1 micromole phosphate transferred to synthetic peptide RRRDDDSDDD per min at 37 °C.CSNK2A1-27173TH is shown to be extremely salt sensitive, the highest activity is shown without salt.
Form	Liquid
Purity	>95% by SDS-PAGE

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Storage buffer	Preservative: None Constituents: 50% Glycerol, 500mM Sodium chloride, 25mM Tris HCl, 1mM DTT, 0.5mM PMSF, pH 8.5
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequence Similarities	Belongs to the protein kinase superfamily. Ser/Thr protein kinase family. CK2 subfamily. Contains 1 protein kinase domain.
Full Length	Full L.

GENE INFORMATION

Gene Name	CSNK2A1 casein kinase 2, alpha 1 polypeptide [Homo sapiens]
Official Symbol	CSNK2A1
Synonyms	CSNK2A1; casein kinase 2, alpha 1 polypeptide; casein kinase II subunit alpha;
Gene ID	1457
mRNA Refseq	NM_001895
Protein Refseq	NP_001886
MIM	115440
Uniprot ID	P68400
Chromosome Location	20p13

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Pathway

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;

Function

ATP binding; beta-catenin binding; nucleotide binding; protein N-terminus binding; protein binding;

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