
Product Data Sheet

Product Name: CSNK1D Human

Cat. No.: GP22475

Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Casein kinase I isoform delta; CKI-delta; CKId; Tau-protein kinase CSNK1D; CSNK1D; HCKID; delta isoform 2; Casein Kinase 1 Delta; Casein kinase 1.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MELRVGNRYR LGRKIGSGSF GDIYLGTDIA AGEEVAIKLE CVKTKHPQLH IESKIYKMMQ GGVGIPTIRW CGAEGDYNVM VMELLGPSLE DLFNFCRKF SLKTVLLLAD QMISRIEYIH SKNFIHRDVK PDNFLMGLGK KGNLVYIIDF GLAKKYRDAR THQHIPPYREN KNLTGTARYA SINTHLGIEQ SRRDDLES LG YVLMYFNLGS LPWQGLKAAT KRQKYERISE KKMSTPIEVL CKGYPSEFAT YLNFCSRSLRF DDKPDYSYLR QLFRLNFHRQ GFSYDYVFDW NMLKFGASRA ADDAERERRD REERLRHSRN PATRGLPSTA SGRLRGQTQEV APPTPLTPTS HTANTSPRPV SGMERERKVS MRLHRGAPVN ISSDLTGRQ DTSRMSTSQN SIPFEHHGK.		
Formulation	The CSNK1D solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 10% glycerol and 0.4M Urea.		

Introduction

Casein kinase I gene family members take part in the control of cytoplasmic and nuclear processes, including DNA replication and repair. Casein Kinase 1 Delta (CSNK1D) is a member of the casein kinase I (CKI) gene family. CSNK1D is a vital serine/threonine-protein kinase which regulates diverse cellular growth and survival processes including Wnt signaling and circadian rhythms. CSNK1D phosphorylates a great amount of proteins.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer

Caution: Product has not been fully validated for medical applications. For research use only.

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periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

CSNK1D Human Recombinant produced in E. coli is a single polypeptide chain containing 429 amino acids (1-409) and having a molecular mass of 48.9kDa. CSNK1D is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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