

Product Data Sheet

CSNK1E Protein, Human (His)

Cat. No.: HY-P72152

Synonyms: Casein kinase 1 epsilon; Casein kinase I; Casein kinase I epsilon; Casein kinase I isoform epsilon;

> CKI epsilon; CKI-epsilon; CKIe; CKIepsilon; CSNK 1E; CSNK1E; DBT; Doubletime, Drosophila, homolog of; EC 2.7.11.1; epsilon isoform; HCK IE; KC1E; KC1E_HUMAN; kinase CK1 epsilon; MGC

10398

Species: Human Source: E. coli

Accession: P49674 (M1-K416)

Gene ID: 1454

Approximately 51.3 kDa Molecular Weight:

PROPERTIES

AA Sequence				
70 Coquence	MELRVGNKYR	LGRKIGSGSF	GDIYLGANIA	SGEEVAIKLE
	CVKTKHPQLH	$I\;E\;S\;K\;F\;Y\;K\;M\;M\;Q$	GGVGIPSIKW	CGAEGDYNVM
	VMELLGPSLE	DLFNFCSRKF	SLKTVLLLAD	QMISRIEYIH
	SKNFIHRDVK	PDNFLMGLGK	KGNLVYIIDF	GLAKKYRDAR
	THQHIPYREN	KNLTGTARYA	SINTHLGIEQ	SRRDDLESLG
	YVLMYFNLGS	LPWQGLKAAT	KRQKYERISE	KKMSTPIEVL
	CKGYPSEFST	YLNFCRSLRF	DDKPDYSYLR	QLFRNLFHRQ
	GFSYDYVFDW	NMLKFGAARN	PEDVDRERRE	HEREERMGQL
	RGSATRALPP	GPPTGATANR	LRSAAEPVAS	TPASRIQPAG
	NTSPRAISRV	DRERKVSMRL	HRGAPANVSS	SDLTGRQEVS
	RIPASQTSVP	FDHLGK		
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.			
Appearance	Lyophilized powder.			
Formulation	Lyophilized from a 0.2 μm solution of Tris-based buffer, 50% Glycerol.			
Endotoxin Level	<1 EU/μg, determined by LAL method.			
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 $\mu g/mL$ in ddH $_2$ O.			
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.			
Shipping	Room temperature in continental US; may vary elsewhere.			

DESCRIPTION

Page 1 of 2

Background

CSNK1E, a member of the casein kinase family, is characterized by its preferential phosphorylation of acidic proteins, particularly caseins. The protein plays a pivotal role in Wnt signaling, as evidenced by its phosphorylation of DVL1 and DVL2, contributing to the intricate regulation of this pathway. Beyond its involvement in Wnt signaling, CSNK1E serves as a central component of the circadian clock, influencing the circadian period length by orchestrating the speed and rhythmicity of PER1 and PER2 phosphorylation. Acting in equilibrium with PP1, it governs the nuclear transport and degradation of PER1 and PER2, thereby intricately regulating the circadian rhythm. Additionally, CSNK1E demonstrates its regulatory influence by inhibiting cytokine-induced granulocytic differentiation, further emphasizing its multifaceted roles in cellular processes.

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

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA