

## CK1d Protein, Human (Sf9, GST)

Cat. No.:	HY-P701658
Synonyms:	CSNK1D; Casein kinase I isoform delta; CKI-delta; CKId; Tau-protein kinase CSNK1D
Species:	Human
Source:	Sf9 insect cells
Accession:	P48730 (E2-R415)
Gene ID:	1453
Molecular Weight:	

### PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.22 µm filtered solution of 50 mM Tris-HCl, pH7.5, 200 mM NaCl, 20% glycerol.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	Please use rapid thawing with running water to thaw the protein.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

### DESCRIPTION

Background	CK1d Protein, an essential serine/threonine-protein kinase, intricately regulates cellular growth and survival processes encompassing Wnt signaling, DNA repair, and circadian rhythms. Demonstrating versatility, CK1d phosphorylates a diverse array of proteins, including connexin-43/GJA1, MAP1A, SNAPIN, MAPT/TAU, TOP2A, DCK, HIF1A, EIF6, p53/TP53, DVL2, DVL3, ESR1, AIB1/NCOA3, DNMT1, PKD2, YAP1, PER1, and PER2. It plays a central role in the circadian clock, determining the period length through the regulation of PER1 and PER2 phosphorylation. Additionally, CK1d influences the WNT3A signaling pathway, neuronal outgrowth, ubiquitination of YAP1, DNA-binding activity of DNMT1, and numerous other cellular processes. This multifaceted kinase emerges as a key player in coordinating diverse cellular functions and signaling pathways.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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