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**Product Data Sheet**


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Product Name: CDK1 Human  
 Cat. No.: GP22441  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Cyclin-Dependent Kinase 1; CDC2; Cell Division Cycle 2; G1 To S And G2 To M; Cell Division Control Protein 2 Homolog; Cell Division Protein Kinase 1; P34 Protein Kinase; P34CDC2; CDC28A; Cell Cycle Controller CDC2; EC 2.7.11.22; EC 2.7.11.23; CDKN1; Cyclin-dependent kinase 1; CDK1.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSHMEDYTKIEKI GEGTYGVVYK GRHKTTGQVV AMKKIRLESE EEGVPSTAIR EISLLKELRH PNIVSLQDVLMLQDSRLYLIF EFLSMDLKKY LDSIPPGQYM DSSLVKSYLY QILQGIVFCH SRRVLHRDLK PQNLLIDDKGTIKLADFGLA RAFGIPIRVY THEVVTLWYR SPEVLLGSAR YSTPVDIWSI GTIFAELATK KPLFHGDSEIDQLFRIFRAL GTPNNEVWPE VESLQDYKNT FPKWKPGSLA SHVKNLDENG LDLLSKMLIY DPAKRISGKMALNHPYFNDL DNQIKKM.		
Formulation	CDK1 protein solution (1mg/ml) containing 20mM Tris-HCl (pH8.0) and 10% glycerol.		

**Introduction**

Cyclin-dependent kinase 1 (CDK1) plays a significant part in the control of the eukaryotic cell cycle through modulating the centrosome cycle in addition to mitotic onset; CDK1 promotes G2-M transition and regulates G1 progress and G1-S transition using association with multiple interphase cyclins. CDK1 is essential in higher cells for the entry into S-phase and mitosis.

**Stability**

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

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

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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### Background

CDK1 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 317 amino acids (1-297 a.a) and having a molecular mass of 36.2kDa. CDK1 is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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