

**CDK1, 1-297aa Human, His tag, Insect cell**

**Cat.NO.: TP01553**

3th Edition

**Synonyms:**Cyclin-dependent kinase 1, CDC2, CDC28A, P34CDC2

**Description:**Cyclin-dependent kinase 1, also known as CDK1, plays a key role in the control of the eukaryotic cell cycle by modulating the centrosome cycle as well as mitotic onset; promotes G2-M transition, and regulates G1 progress and G1-S transition via association with multiple interphase cyclins. This protein is required in higher cells for entry into S-phase and mitosis. Recombinant human CDK1 protein, fused to His-tag at C-terminus, was expressed in insect cells using baculovirus expression system and purified by using conventional chromatography techniques.

**Form:**Liquid. In Phosphate buffered saline (pH7.4), 30% glycerol, 2mM DTT, 0.1mM PMSF

**Molecular Weight:**35.1 kDa (305aa)

**Sequences:**

MEDYTKIEKIGEGTYGVVYKGRHKTTGQVVAMKKIRLESEEEGVPSTAIRESLLKELRHPNIVSLQDVLMQDSRLYLI  
FEFLSMDLKKYLDSIPPGQYMDSSLVKSYLEYQILQGIVFCHSRRVLHRDLKPQNLLIDDKGTIKLADFGGLARAFGIPIR  
VYTHEVVTLWYRSPEVLLGSARYSTPVDIWSIGTIFAELATKKPLFHGDSEIDQLFRIFRALGTPNNEVWPEVESLQD  
YKNTFPKWKPGSLASHVKNLDENGLDLLSKMLIYDPAKRISGKMALNHPYFNDLDNQIKKMLEHHHHHH

**Purity:**> 95% by HPLC

**Concentration:**0.5 mg/ml (determined by Bradford assay)

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.