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YB90739Hu01

Cyclin Dependent Kinase 5 (CDK5)

Organism: Homo sapiens (Human)

*Instruction manual*

FOR IN VITRO USE AND RESEARCH USE ONLY

NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES

4th Edition (Revised in August, 2012)

## [ DESCRIPTION ]

**Protein Names:** Cyclin Dependent Kinase 5

**Synonyms:** CDK5, CDKN5

**Species:** Human

**Size:** 100 $\mu$ g

**Source:** *Escherichia coli*-derived

**Subcellular Location:** Cytoplasm. Cell membrane; Peripheral membrane protein.  
Perikaryon. Cell projection, lamellipodium.

## [ PROPERTIES ]

**Residues:** Asp92~Gln273 (Accession # Q00535), with two N-terminal Tags, His-tag and S-tag.

**Grade & Purity:** >95%, 26 kDa as determined by SDS-PAGE reducing conditions.

**Formulation:** Supplied as liquid form in Phosphate buffered saline(PBS), pH 7.4.

**Endotoxin Level:** <1.0 EU per 1 $\mu$ g (determined by the LAL method).

**Applications:** SDS-PAGE; WB; ELISA; IP.

(May be suitable for use in other assays to be determined by the end user.)

**Predicted Molecular Mass:** 26.1 kDa

**Predicted isoelectric point:** 6.3

## [ PREPARATION ]

Reconstitute in sterile PBS, pH7.2-pH7.4.



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## [ STORAGE AND STABILITY ]

**Storage:** Avoid repeated freeze/thaw cycles.

Store at 2-8°C for one month.

Aliquot and store at -80°C for 12 months.

**Stability Test:** The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.

## [ SEQUENCES ]

The target protein is fused with two N-terminal Tags, His-tag and S-tag, its sequence is listed below.

```
MHHHHHSSGLVPRGSGMKETAALKFERQHMDSPDLGTDKAMADIGSEF-DSCNGDLDP          EIVKSFLFQL      LKGLGFCHSR
NVLHRDLKPQ      NLLINRNGEL  KLADFLARA  FGIPVRCYSA  EVVTLWYRPP  DVLFGAKLYS  TSIDMWSAGC          IFAELANAGR
PLFPGNDVDD  QLKRFRLLG  TPTEEQWPSM  TKLPDYKYPY  MYPATSLVN  VVPKLNATGR  DLLQNLKCN  PVQ
```