

Recombinant Human cyclin-dependent kinase 16, His-tagged

Cat. No. CDK16-340H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	CDK16, 158-496 aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	158-496 a.a.
Description	Cyclin-dependent kinase 16 isoform 1, also known as CDK16, belong to the CDK family of serine/threonine protein kinases. These proteins have a core kinase domain flanked by unique amino- and carboxy-terminal domains. CDK proteins are known to regulate the cell cycle. CDK16, which is expressed primarily in mammalian brain, interacts with a variety of proteins, and is thought to be part of a multiple signal transduction cascade. Recombinant human CDK16 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 10% glycerol
Molecular Mass	41.1 kDa (362aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MSGFGKLET YIKLDKLGEG TYATVYKGKS KLTDNLVALK EIRLEHEEGA PCTAIREVSL LKDLKHANIV TLHDIHTEK SLTLVFEYLD KDLKQYLDDC GNIINMHNVK LFLFQLLRGL AYCHRQKVLH RDLKPQNLLI NERGELKLAD FGLARAKSIP TKTYSNEVVT LWYRPPDILL

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GSTDYSTQID MWGVGCIFYE MATGRPLFPG STVEEQLHFI FRILGTPTEE
 TWPGILSNEE FKTYNYPKYR AEALLSHAPR LDSDGADLLT KLLQFEGNRN
 ISAEDAMKHP FFLSLGERIH KLPDTSIFA LKEIQLQKEA SLRSSMPDS
 GRPAFRVVDVDT EF

Purity >95% by SDS - PAGE

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

Concentration 1mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name [CDK16 cyclin-dependent kinase 16 \[Homo sapiens \]](#)

Official Symbol CDK16

Synonyms CDK16; cyclin-dependent kinase 16; PCTAIRE protein kinase 1 , PCTK1; FLJ16665; PCTAIRE; PCTAIRE1; PCTGAIRE; serine/threonine protein kinase; PCTAIRE-motif protein kinase 1; cell division protein kinase 16; serine/threonine-protein kinase PCTAIRE-1; PCTK1;

Gene ID [5127](#)

mRNA Refseq [NM_001170460](#)

Protein Refseq [NP_001163931](#)

MIM [311550](#)

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UniProt ID	Q00536
Chromosome Location	Xp11
Function	ATP binding; cyclin-dependent protein kinase activity; nucleotide binding; protein binding; protein kinase activity; protein serine/threonine kinase activity;

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