Recombinant human CDK16 protein

Catalog Number: ATGP2423

PRODUCT INFORMATION

Expression system
E.coli

Domain
158-496aa

UniProt No.
Q00536

NCBI Accession No.
NP_006192

Alternative Names
Cyclin-dependent kinase 16 isoform 1, Cyclin-dependent kinase 16 isoform 1, PCTAIRE, PCTAIRE1, PCTGAIRE, PCTK1

PRODUCT SPECIFICATION

Molecular Weight
41.1 kDa (362aa) confirmed by MALDI-TOF

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 10% glycerol

Purity
> 95% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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

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using conventional chromatography techniques.

Amino acid Sequence

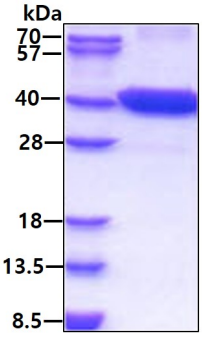
<MGSSHHHHHH SSGLVPRGSH MGS>GFGKLET YIKLDKLGEG TYATVYKGKS KLTDNLVALK EIRLEHEEGA PCTAIREVSL LKDLKHANIV TLHDIIHTEK SLTLVFEYLD KDLKQYLDDC GNIINMHNVK LFLFQLLRGL AYCHRQKVLH RDLKPQNLLI NERGELKLAD FGLARAKSIP TKTYSNEVVT LWYRPPDILL GSTDYSTQID MWGVGCIFYE MATGRPLFPG STVEEQLHFI FRILGTPTEE TWPGILSNEE FKTYNYPKYR AEALLSHAPR LDSDGADLLT KLLQFEGRNR ISAEDAMKHP FFLSLGERIH KLPDTTSIFA LKEIQLQKEA SLRSSSMPDS GRPAFRVVDT EF

General References

Cheng K., et al. (2002) J Biol Chem. 277:31988-31993.
Meyerson M., et al. (1992) EMBO J. 118:2909-2917.

DATA

SDS-PAGE



3ug by SDS PAGE under reducing condition and visualized by coomassie blue stain