

AR51243PU-N

Human CDK16 / PCTK1 (158-496, His-tag) - Purified

Alternate names:

Cell division protein kinase 16, Cyclin-dependent kinase 16, PCTAIRE 1, PCTAIRE-1, PCTAIRE-motif protein kinase 1, PCTAIRE1, Serine/threonine-protein kinase PCTAIRE-1

Quantity:

0.5 mg

Concentration:

1.0 mg/ml (determined by Bradford assay)

Background:

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.

Uniprot ID:

[Q00536](#)

NCBI:

[NP_006192](#)

GeneID:

[5127](#)

Species:

Human

Source:

E. coli

Format:

State: Liquid purified protein

Purity: >95% by SDS - PAGE

Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 10% glycerol

Description:

Recombinant human CDK16 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

AA Sequence:

MGSSHHHHH SGLVPRGSH MSGFGKLET YIKLDKLGEY TYATVYKGKS KLTDNLVALK
EIRLEHEEGA PCTAIREVSL LKDLKHANIV TLHDIITEK SLTLVFEYLD KDLKQYLDGC
GNIINMHNVK LFLFQLLRGL AYCHRQKVLH RDLKPQNLI NERELKLAD FGLARAKSIP
TKTYSNEVVT LWYRPPDILL GSTDYSTQID MWGVGCIFYE MATGRPLFPG STVEEQLHFI
FRILGTPTEE TWPGILSNEE FKTYNYPKYR AEALLSHAPR LQSDGADLLT KLLQFEGRNR
ISAEDAMKHP FFLSLGERIH KLPDTSIFA LKEIQLQKEA SLRSSMPDS GRPAFRVVDV EF

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

Storage:

Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

General Readings:

Cheng K., et al. (2002) J Biol Chem. 277:31988-31993. Meyerson M., et al. (1992) EMBO J. 11:2909-2917.

Pictures:

