

Recombinant Human Cyclin-dependent Kinase 16, GST-His

Cat. No. CDK16-710H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human CDK16, Amino acids R107-F496, mutationally activated: S153A, N-terminally fused to GST-HIS6-Thrombin cleavage site, was expressed in <i>Sf9 cells</i> . MW = 74,943 Da.
Species	Human
Source	Sf9 Cells
ProteinLength	107-496 a.a.
Description	The protein encoded by this gene belongs to the cdc2/cdkx subfamily of the ser/thr family of protein kinases. It may play a role in signal transduction cascades in terminally differentiated cells; in exocytosis; and in transport of secretory cargo from the endoplasmic reticulum. This gene is thought to escape X inactivation. Alternative splicing results in multiple transcript variants encoding different isoforms.
Purification	One-step affinity purification using GSH-agarose.
Product Identity	PCTAIRE1 was confirmed as PCTAIRE1 by mass spectroscopy LC-ESI-MS/MS (Protagen AG, Germany).
Storage Buffer	50 mM Tris-HCl, pH 8.0; 100 mM NaCl, 5 mM DTT, 4 mM reduced glutathione, 20% glycerol.
Concentration	0.731 µg/µl (Bradford method using BSA [Sigma, cat# A-7638, Lot 79H7641] as

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standard protein).

Specific Activity 1 pmol/μg×min.

Storage -80°C. Avoid repeated freeze-thaw cycles!

GENE INFORMATION

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

Synonyms CDK16; cyclin-dependent kinase 16; PCTK1; PCTAIRE; FLJ16665; PCTAIRE1; PCTGAIRE; cell division protein kinase 16; PCTAIRE-motif protein kinase 1; serine/threonine-protein kinase PCTAIRE-1; EC 2.7.11.22; PCTAIRE protein kinase 1

Gene ID [5127](#)

mRNA Refseq [NM_001170460](#)

Protein Refseq [NP_001163931](#)

MIM [311550](#)

UniProt ID [Q00536](#)

Chromosome Location Xp11.3-p11.23

Function ATP binding; cyclin-dependent protein kinase activity; nucleotide binding; protein binding; protein kinase activity; protein serine/threonine kinase activity; transferase activity

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