

# Recombinant Human CDK2AP2 Protein (E.coli, His Tag)



Catalog Number:PKSH030818

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

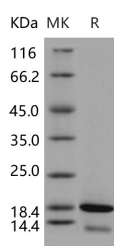
## Description

<b>Synonyms</b>	Cyclin-dependent kinase 2-associated protein 2;CDK2-associated protein 2;DOC-1-related protein;DOC-1R;CDK2AP2;DOC1R;p14
<b>Species</b>	Human
<b>Expression Host</b>	E.coli
<b>Sequence</b>	Met 1-Thr 126
<b>Accession</b>	O75956
<b>Calculated Molecular Weight</b>	14.5 kDa
<b>Observed molecular weight</b>	18&12 kDa
<b>Tag</b>	C-His

## Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	Please contact us for more information.
<b>Storage</b>	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from sterile PBS, 15% glycerol, pH 7.5 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

## Data



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## Background

CDK2AP2 belongs to the CDK2AP family. Members of this family of proteins are cell-growth suppressors; associating with and influencing the biological activities of important cell cycle regulators in the S phase including monomeric non-phosphorylated cyclin-dependent kinase 2 (CDK2) and DNA polymerase alpha/primase. CDK2AP2 contains 5 distinct gt-ag introns. Transcription produces 7 different mRNAs; 6 alternatively spliced variants and 1 unspliced form. There are 2 non overlapping alternative last exons and 4 validated alternative polyadenylation sites. The mRNAs appear to differ splicing versus retention of 3 introns. CDK2AP2 plays a role in regulating self-renewal of mouse embryonic stem cells (mESC) under permissive conditions; and cell survival during differentiation of the mESC into terminally differentiated

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