

Human CDK2AP2 Protein (His Tag)

Catalog Number: 12552-H08E



Sino Biological Inc.
Biological Solution Specialist

General Information

Gene Name Synonym:

DOC-1R; p14; 5830466O21Rik; D19Ert144e; Doc-1r

Protein Construction:

A DNA sequence encoding the human CDK2AP2 (O75956) (Met 1-Thr 126) was fused with a polyhistidine tag at the C-terminus.

Source: Human

Expression Host: E. coli

QC Testing

Purity: > 78 % (the upper band) + 17 % (the lower band) as determined by SDS-PAGE

Endotoxin:

Please contact us for more information.

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Met

Molecular Mass:

The recombinant human CDK2AP2 consists of 136 amino acids and has a calculated molecular mass of 14.5 kDa. In SDS-PAGE under reducing conditions, the apparent molecular mass of human CDK2AP2 is approximately 18 and 12 kDa due to different glycosylation.

Formulation:

Lyophilized from sterile PBS, 15% glycerol, pH 7.5

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

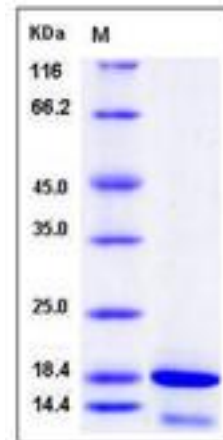
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

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 cell types.

References

1. Stelzl U, *et al.* (2005) A human protein-protein interaction network: a resource for annotating the proteome. *Cell*. 122(6):957-68.
- 2.2 Gerhard DS, *et al.* (2004) The status, quality, and expansion of the NIH full-length cDNA project: the Mammalian Gene Collection (MGC). *Genome Res*. 14(10B):2121-7.
- 3.3 Buajeeb W, *et al.* (2004) Interaction of the CDK2-associated protein-1, p12(DOC-1/CDK2AP1), with its homolog, p14(DOC-1R). *Biochem Biophys Res Commun*. 315(4):998-1003

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