

Active Recombinant Human SUB1 Homolog(*S. cerevisiae*)

Cat. No. SUB1-1080H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species Human

Source E.coli

Description

The human PC4 is a non-TAF transcription coactivator that mediates activator-dependent transcription by RNA polymerase II in vitro through most tested activators. The function of PC4 is apparently through interactions with transcriptional activators and the basal transcription machinery. It is negatively regulated by casein kinase II phosphorylation both in vivo and in vitro. PC4 strongly binds single stranded DNA and regulates HSSB (RPA)-dependent SV40 DNA replication. Recent studies indicated that PC4 can be acetylated by several histone acetyltransferase. Recombinant PC4 protein (wild type, 127 amino acids) is isolated from an E. coli strain that carries the coding sequence of human PC4 under the control of T7 promoter and purified by conventional chromatography. Recombinant PC4 has been utilized for in vitro function studies, including transcription, DNA replication, *in vitro* phosphorylation, gel mobility shift assay, protein-protein interactions, and as a substrate for in vitro acetylation. Protein is greater than 95% homogeneous and contains no detectable protease, DNase, and RNase activity.

Form

Liquid. Supplied in 20mM Tris-HCl Ph7.9, 20% glycerol, 100mM KCl, 0.2mM EDTA and 1mM DTT.

Activity

1ng is sufficient for a gel mobility shift assay in a 20μl reaction, 20ng are sufficient for

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reconstituted transcription assay and 100ng are sufficient for a protein-protein interaction assay.

Purity >95% by SDS-PAGE.

Usage For in vitro use only.

Storage Quality guaranteed for 12 months. Store at -80°C. Avoid freeze / thaw cycles.

GENE INFORMATION

Gene Name [SUB1 SUB1 homolog \(S. cerevisiae\) \[Homo sapiens \]](#)

Synonyms SUB1; SUB1 homolog (S. cerevisiae); P15; PC4; p14; MGC102747; Activated RNA polymerase II; transcriptional coactivator p15; SUB1 homolog; Positive cofactor 4; RPO2TC1; p15; activated RNA polymerase II transcription cofactor 4

Gene ID [10923](#)

mRNA Refseq [NM_006713](#)

Protein Refseq [NP_006704](#)

MIM [600503](#)

UniProt ID [P53999](#)

Chromosome Location 5p13.3

Function DNA binding; protein binding; single-stranded DNA binding; transcription coactivator

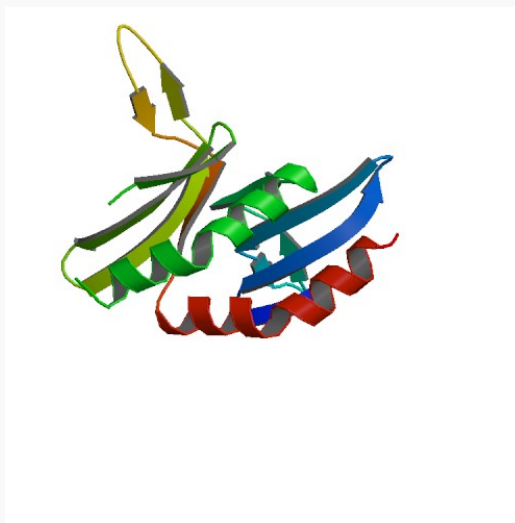
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activity

PDB rendering based
on 1pcf.



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