

Recombinant Human Proliferating Cell Nuclear Antigen

Cat. No. PCNA-536H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human Proliferating Cell Nuclear Antigen, was expressed in <i>E.coli</i> and purified by conventional chromatography techniques. MW = 28 kDa (261 aa).
Species	Human
Source	E.coli
Description	PCNA (Proliferating Cell Nuclear Antigen) is found in the nucleus and is a cofactor of DNA polymerase delta. This protein is associated with DNA synthesis and repair. The encoded protein acts as a homotrimer and helps increase the processivity of leading strand synthesis during DNA replication. It appears during late G1- phase, S-phase of mitosis and persists until the end of the M-phase because of its long biological half-life. PCNA may be induced by UV irradiation, growth factors and eventually by neighbouring tumours.
Form	Liquid. In 20 mM Tris-HCl buffer (pH 7.5) containing 2 mM EDTA 20% glycerol.
Purity	> 95% by SDS - PAGE.
Concentration	1 mg/ml (determined by Bradford assay).
Sequences Of Amino Acids	MFEARLVQGS ILKKVLEALK DLINEACWDI SSSGVNLQSM DSSHVSLVQL TLR SEG FDTY RCDRLNLMGV NLTSMSKILK CAGNEDIITL RAEDNADTLA LVF EAP NQE K VSDYEMKLM DLDVEQLGIPE QEYSCVVKMP SGEFARICRD LSHIGDAVVI SCAKDGVKFS ASGELGNGNI KLSQTSNVDK EEEAVTIEMN EPVQLTFALR YLN

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FFTKATP LSSTVTLSMS ADVPLVVEYK IADMGHLKYY LAPKIEDEEG S.

Storage

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION
Gene Name

PCNA proliferating cell nuclear antigen [Homo sapiens]

Synonyms

MGC8367; PCNA; Proliferating cell nuclear antigen; Cyclin; proliferating cell nuclear antigen; cyclin; DNA polymerase delta auxiliary protein

Gene ID

5111

mRNA Refseq

NM_002592

Protein Refseq

NP_002583

MIM

176740

UniProt ID

P12004

**Chromosome
Location**

20pter-p12

Pathway

Base excision repair; Cell cycle; DNA replication; Mismatch repair; Nucleotide excision repair; Cell Cycle, Mitotic; DNA Repair; DNA Replication; Telomere Maintenance

Function

DNA binding; DNA polymerase processivity factor activity; MutLalpha complex binding; dinucleotide insertion or deletion binding; protein binding; purine-specific

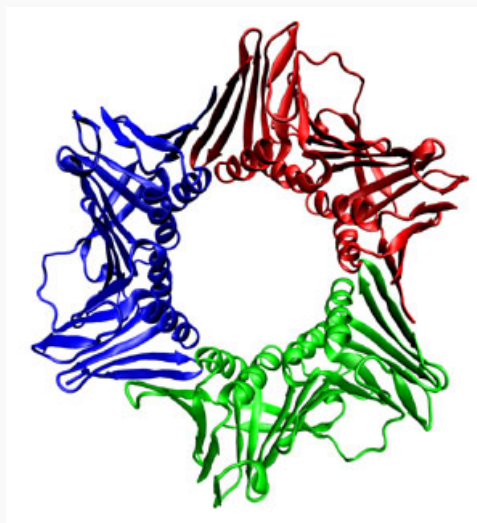
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mismatch base pair DNA N-glycosylase activity

The assembled human DNA clamp, a trimer of the protein PCNA.



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