

Product information

PCNA, 1-261 aa

Human, Recombinant, *E.coli*

Cat. No. IBPDN0801

Full name: Proliferating cell nuclear antigen

NCBI Accession No.: NP_002583

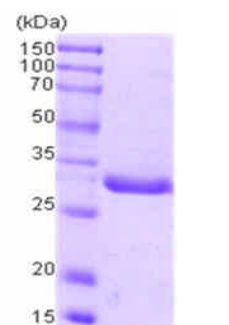
Description: PCNA (Proliferating Cell Nuclear Antigen) is found in the nucleus and is a cofactor of DNA polymerase delta. This protein is associated with DNA synthesis and repair. The encoded protein acts as a homotrimer and helps increase the processivity of leading strand synthesis during DNA replication. 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. Recombinant human PCNA, was expressed in *E.coli* and purified by conventional chromatography techniques.

Form: Liquid. In 20 mM Tris-HCl buffer (pH 7.5) containing 2 mM EDTA
20% glycerol

Molecular Weight: 28 kDa (261 aa), confirmed by MALDI-TOF

Purity: > 95% by SDS - PAGE

Concentration: 1 mg/ml (determined by Bradford assay)



15% SDS-PAGE (3ug)

Sequences of amino acids:

MFEARLVQGS ILKVKLEALK DLINACWDI SSSGVNLQSM DSSHVSLVQL TLRSEGFDTY RCDRNLMGV NLTSMSKILK CAGNEDIITL
RAEDNADTLA LVFEAPNQEK VSDYEMKLMQ LDVEQLGIPE QEYSCVVKMP SGEFARICRD LSHIGDAVVI SCAKDGVKFS ASGELGNGNI
KLSQTSNVDK EEEAVT IEMN EPVQLTFALR YLNFFTKATP LSSTVLSMS ADVPLVVEYK IADMGHLYY LAPKIEDEEG S

General references:

Matsumoto K., *et al.* (1987) *EMBO J.* 6(3):637-42.

Moldovan GL., *et al.* (2007). *Cell.* 129(4):665-79.

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.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.