

**PCNA, 1-261 aa, Human, Recombinant, E.coli**

**Cat.NO.: TP03308**

3th Edition

**Synonyms:**Proliferating cell nuclear antigen.

**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.

**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

**Sequences:**

MFEARLVQGSILKKVLEALKDLINACWDISSSGVNLQSMDSHVSLVQLTLRSEGFDTYRCDRNLAMGVNLTSM  
KILKCAGNEDIITLRAEDNADTLALVFEAPNQEKVSDYEMKLMDLQVEQLGIPEQEYSCVVKMPSGEFARICRDL  
GDAVVISCAKDGVKFSASGELGNGNIKLSQTSNVDKEEEAVTIEMNEPVQLTFALRYLNFFTKATPLSSTVTLMSA  
DVPLVVEYKIADMGHLKYYLAPKIEDEEGS

**Purity:**> 95% by HPLC

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

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**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.