Recombinant human PCNA protein

Catalog Number: PDN0801

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-261aa

UniProt No.
P12004

NCBI Accession No.
NP_002583.1

Alternative Names
Proliferating cell nuclear antigen, MGC8367, Proliferating cell nuclear antigen, Proliferating cell nuclear antigen, PCNA,

PRODUCT SPECIFICATION

Molecular Weight
28.7 kDa (261aa) confirmed by MALDI-TOF

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 7.5) containing 2mM EDTA, 20% glycerol

Purity
> 95% by SDS-PAGE

Tag
Non-Tagged

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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.

Amino acid Sequence

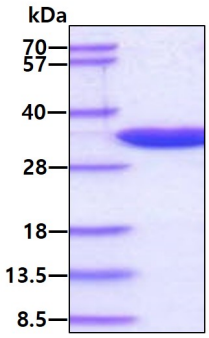
MFEARLVQGS ILKKVLEALK DLINEACWDI SSSGVNLQSM DSSHVSLVQL TLRSEGFDTY RCDRNLAMGV NLTSMSKILK CAGNEDIITL RAEDNADTLA LVFEAPNQEK VSDYEMKLMD LDVEQLGIPE QEYSCVVKMP SGEFARICRD LSHIGDAVVI SCAKDGVKFS ASGELGNGNI KLSQTSNVDK EEEAVTIEMN EPVQLTFALR YLNFFTKATP LSSTVTLSMS ADVPLVVEYK IADMGHLKYY LAPKIEDEEG S

General References

Matsumoto K., et al. (1987) EMBO J. 6(3):637-42.
Moldovan GL., et al. (2007). Cell. 129(4):665-79.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain