

Recombinant Human Proliferating Cell Nuclear Antigen (PCNA)

ORDERING INFORMATION

Catalog Number	Size
12502P-5	5ug
12502P-25	25ug
12502P-1000	1000ug

Formulation: Sterile-filtered solution in 20mM Tris, pH 7.5, 2mM EDTA, and 20% glycerol. Purified by proprietary chromatographic techniques.

BACKGROUND

PCNA is located in the nucleus and is a cofactor of DNA polymerase delta. PCNA acts as a homotrimer and helps in processing of leading strand synthesis during DNA replication. In reaction to DNA damage, PCNA is ubiquitinated and participates in the RAD6-dependent DNA repair pathway. Two transcript variants encoding the same protein have been found for PCNA gene. PCNA is expressed during late G1 phase, S phase of mitosis, and persists until the end of the M phase. PCNA can be induced by UV irradiation.

DESCRIPTION

Recombinant Human PCNA produced in E. coli is a single non-glycosylated polypeptide chain containing 261 amino acids with a molecular weight of 28.8kDa.

SPECIFICATION SUMMARY

Source: *Escherichia coli*

Purity: Greater than 95% as determined by SDS- PAGE.

Accession number: P12004

Amino acid sequence:

MFEARLVQGS ILKKVLEALK DLINEACWDI
SSSGVNLQSM DSSHVSLVQLTLRSEGFDTY
RCDRNLAMGV NLTSMKILK CAGNEDIITL
RAEDNADTLA LVFEAPNQEK VSDYEMKLMD
LDVEQLGIPE QEYSCVVKMP SGEFARICRD
LSHIGDAVVI SCAKDGVKFS ASGELGNGNI
KLSQTSNVDK EEEAVTIEMN EPVQLTFALR
YLNFFTKATP LSSTVTLSMS ADVPLVVEYK
IADMGHLYY LAPKIEDEEG S.

STORAGE AND STABILITY

Although stable at 4°C for 4 weeks, product is best stored at or below -20°C. Addition of a carrier protein (such as 0.1% HSA or BSA) is recommended for long-term storage.

For in vitro investigational use only. Not for use in therapeutic or diagnostic procedures.