

Recombinant Human PCNA, His

#R00573

Size: 10 µg/100 µg/500 µg

Stability & Storage

- Use a manual defrost freezer and avoid repeated freeze-thaw cycles.
- 12 months from date of receipt, -20 to -70 °C as supplied.
 - 1 month, 2 to 8 °C under sterile conditions after reconstitution.
 - 3 months, -20 to -70 °C under sterile conditions after reconstitution.



Warning: This product is intended for scientific research only. It is not to be used for medical or diagnostic procedures in humans or animals, nor as a food, cosmetic, or household product.

Background

Proliferating Cell Nuclear Antigen (PCNA) is a DNA polymerase that is essential for DNA replication, excision and mismatch repair pathways. PCNA is a "DNA clamp" which binds to the CDK inhibitor p21, the structure-specific endonucleases Fen1 and XPG, and DNA cytosine 5-methyltransferase (MCMT). PCNA is a potentially useful marker of cells with proliferative potential for identifying the proliferation status of tumor tissue (i.e. relevant to prognosis). PCNA antibodies are also useful tools for DNA repair and cancer research.

AA Sequence

MHHHHHHFEARLVQGSILKKVLEALKDLINEACWDIS
SSGVNLQSMDSHVSLVQLTLRSEGFDTYRCDRNLA
MGVNLTSMSKILKCAGNEDIITLRAEDNADTLALVFEA
PNQEKVSDYEMKLMDL DVEQLGIPEQEYSCVVKMPS
GEFARICRDL SHIGDAVVISCAKDGVKFSASGELGNG
NIKLSQTSNVDKEEEAVTIEMNEPVQLTFALRYLNFFT

KATPLSSTVTLSMSADVPLVVEYKIADMGHLKYYLAP
KIEDEEGS

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.

Product Specification

Accession	P12004
GeneID	5111
Species	Human
Source	Escherichia coli.
Tags	His
Molecular Weight	Approximately 29.60 KDa, a single non-glycosylated polypeptide chain containing 267 amino acids.
Purity	≥90% by SDS-PAGE analysis.
Biological Activity	Test in Process.
Physical Appearance	Sterile Filtered White Lyophilized (freeze-dried) powder.
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in 20mM Tris, 150mM NaCl, 1mM TCEP, 5% Trehalose, pH8.00.

Endotoxin	Less than 1 EU/μg of rHuPCNA, His as determined by LAL method.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
