



Creative Enzymes

Diagnostic Enzymes

T4 Polynucleotide Kinase

Product Information

Cat#	TRA-061
Specification	100U,500U
Description	T4 polynucleotide kinase (T4 PNK) catalyzes the transfer of the γ -phosphate from ATP to the 5'-hydroxyl group of DNA, RNA, oligonucleotides, or mononucleotides. It accepts other NTPs as phosphate donors.
Applications	5'-end labeling of oligonucleotides, DNA, or RNA for use as probes in Southern, Northern, EMSA, etc.; as markers in gel electrophoresis; as DNA sequencing primers; as PCR primers; etc. 5'-end phosphorylation of oligonucleotides, DNA, or RNA to ensure smooth subsequent ligation reactions; Catalyze 5'-phosphorylation of mononucleotides for 3'-phosphorylation, enabling their ligation to the 3'-terminus of DNA or RNA; remove the 3'-phosphate group.
Source	E.coli
Unit Definition	One unit is defined as the amount of enzyme required to transfer 1 nmol of γ -phosphate groups from ATP to the 5'-OH terminus of DNA within 30 minutes at 37°C.
Storage Buffer	20 mM Tris-HCl (pH 7.5), 25 mM KCl, 0.1 mM EDTA, 2 mM DTT, 50% Glycerol.
Storage	Store at -20°C.

Tel: 1-631-562-8517 1-516-512-3133

Email:info@creative-enzymes.com

Fax:1-631-938-8127

45-1 Ramsey Road, Shirley, NY 11967, USA