

Native T4-infected Escherichia coli Polynucleotide Kinase

Cat. No. NATE-0605

Lot. No. (See product label)

Introduction

Description	Polynucleotide kinase catalyses a "forward reaction" transfer of the γ -phosphate of ATP to the 5' hydroxyl terminus of single-and double-stranded nucleic acids (DNA and RNA) and 3'-nucleoside monophosphates. In exchange reactions containing ADP, the enzyme will catalyze the exchange of 5'-terminal phosphate groups and ATP. The 3'-phosphatase activity enables the enzyme to remove 3'-phosphoryl groups from phosphorylpolynucleotides.
Applications	Suitable for: • Sequencing or nucleic acid tagging (DNA and RNA) by 5'-end labeling • 5' phosphorylation of oligonucleotides • Removal of 3'-phosphate groups from phosphorylpolynucleotides
Synonyms	polynucleotide 5'-hydroxyl-kinase; EC 2.7.1.78; 37211-65-7; ATP:5'-dephosphopolynucleotide 5'-phosphatase; PNK; polynucleotide 5'-hydroxyl kinase (phosphorylating); 5'-hydroxyl polynucleotide kinase; 5'-hydroxyl polyribonucleotide kinase; 5'-hydroxyl RNA kinase; DNA 5'-hydroxyl kinase; DNA kinase; polynucleotide kinase; polynucleotide 5'-hydroxy-kinase

Product Information

Source	T4-infected Escherichia coli
Form	buffered aqueous glycerol solution
EC Number	EC 2.7.1.78
CAS No.	37211-65-7
Molecular Weight	mol wt 33 kDa
Activity	10 units/ μ L
Concentration	10 units/ μ L
Unit Definition	One unit catalyzes the transfer of one nanomole of 32 P to the 5'-end of micrococcal nuclease-treated DNA in 30 min. at 37°C. Transfer is detected as incorporation into acid-insoluble material.

Storage and Shipping Information

Storage	-20°C
----------------	-------