

T4 Polynucleotide Kinase

Molecular Mass: 35 kDa

Catalog #	Size	Concentration	Price
12	500 units	10 units/ μ l	\$30
13	5,000 units	10 units/ μ l	\$270

Supplied with 10X reaction buffer

Description

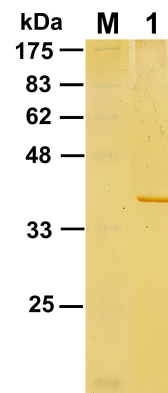
T4 polynucleotide kinase catalyzes phosphorylation of the 5' hydroxyl terminus of DNA, RNA, or nucleoside 3'-monophosphate by transferring the phosphoryl group from the γ position of ATP. It is widely used for 5'-end labeling of DNA or RNA, phosphorylation of the 5' end of oligonucleotides, and 32 P-post labeling.

Unit Definition

One unit enzyme catalyzes phosphorylation of 1 nmol DNA 5' ends in 30 min at 37°C.

Reaction Buffer

70 mM Tris-HCl (pH 7.6), 10 mM $MgCl_2$, 5 mM DTT. [γ - 32 P]ATP or ATP is additionally needed in the reaction for 5' end labeling or phosphorylation, respectively.



Purified T4 polynucleotide kinase. The enzyme (230 ng) was analyzed by electrophoresis on a 10% SDS-polyacrylamide gel and visualized by silver staining. Protein size markers (lane M) are indicated on the left.