5' Deadenylase

Cat. No. : RK20580

Product components

Components	Component number	Concentration	2,500 U
5' Deadenylase	RM20572	50,000 U/mL	50 μL
10X ABuffer A	RM20125	10X	1.25 mL

Product Description

The 5' Deadenylase derived from yeast can remove adenosine residues from the 5'-end of DNA and RNA, retaining the 5'-end phosphate group. It can cleave AppppA to produce ATP and AMP.

Product Source

Purified from *E.coli* strain carries *S.cerevisiae* HNT3 gene.

Storage

-20℃

Unit Definition

One unit is defined as the amount of enzyme required to remove 10 pmol AMP from the 5' adenylytylated DNA oligonucleotide at 30℃ for 10 minutes.

Reaction Conditions

1X ABuffer A, incubate at 30℃

1X ABuffer A

10 mM Bis-Tris-Propane-HCl, 10 mM $MgCl_2$, 1 mM DTT, pH 7@ 25℃

Storage Conditions

10 mM Tris-HCl, 100 mM NaCl, 0.1 mM EDTA, 1 mM DTT, 0.1% Triton® X-100, 50% glycerol, pH 7.5@ 25 ℃

Heat Inactivation

70℃ for 20 min

Notes

The substrate for 5' adenylation can be dsDNA, ssDNA, and 5 -terminal adenylate residue-containing nicked DNA. The enzyme is more sensitive to dsDNA and nick DNA.

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Operation Description

1. Set-up the following reaction on ice, noting that the enzyme should be added at the end and then gently mix the reaction by pipetting up and down and microcentrifugation.

Components	50 μL Reaction
10X ABuffer A	2 μL (1X)
Substrate (5-50 pmol)	variable
5' Deadenylase	1 μL (50 U)
Nuclease-Free-Water	to 20 μL

2. Incubate at 30°C for 0.5-1 hour.

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