

Polynucleotide phosphorylase from Synechocystis sp., Recombinant

Cat. No. NATE-0610

Lot. No. (See product label)

Introduction

Description Polynucleotide phosphorylase (PNPase) is a bifunctional enzyme with a

phosphorolytic 3' to 5' exoribonuclease activity and a 3'-terminal oligonucleotide polymerase activity. It is also involved in mRNA processing and degradation in

bacteria, plants, and humans.

Applications Polynucleotide phosphorylase has been used in a study to discover that a major

function of PNPase is the synthesis of CDP. It has also been used in a study to investigate the enzyme responsible for RNA 3'-tail synthesis in S. coelicolor.

Synonyms PNPase; nucleoside diphosphate:polynucleotidyl transferase; polyribonucleotide

nucleotidyltransferase; polynucleotide phosphorylase; polyribonucleotide

phosphorylase; EC 2.7.7.8; 9014-12-4

Product Information

Species Synechocystis sp.

Source E. coli

EC Number EC 2.7.7.8

CAS No. 9014-12-4

Unit Definition One unit will polymerize 1.0 μmole of ADP, releasing 1.0 μmole of inorganic

phosphate in 15 minutes, at pH 9.1 at 37°C. Supplied as a solution in 20 mM Hepes buffer pH 7.9, 0.1 mM EDTA, 2 mM DTT, 12.5 mM MgCl2, 60 mM KCl, 20% (w/v)

1/1

Glycerol

Storage and Shipping Information

Storage −70°C

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