

Polynucleotide Phosphorylase from Escherichia coli, Recombinant

Cat. No. NATE-0608

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 (PNP) has been used in a study to show that spontaneous mutations

resulting from replication errors are reduced in a PNP-deficient strain. It has also been used in a study to show that the absence of PNPase makes E. coli cells sensitive to UV, which suggests PNP has a role in

survival of UV damage.

Synonyms PNPase; nucleoside diphosphate:polynucleotidyl transferase; polyribonucleotide nucleotidyltransferase;

polynucleotide phosphorylase; polyribonucleotide phosphorylase; EC 2.7.7.8; 9014-12-4

Product Information

Species Escherichia coli

Source E. coli

Form Supplied as a solution in 20 mM Hepes buffer pH 7.9, 0.1 mM EDTA, 2 mM DTT, 12.5 mM MgCl2, 200 mM

KCI, 21.4% (w/v) Glycerol

EC Number EC 2.7.7.8

CAS No. 9014-12-4

Unit One unit will polymerize 1.0 µmole of ADP releasing 1.0 µmole of inorganic phosphate in 15 minutes, at

Definition pH 9.1 at 37°C.

Storage and Shipping Information

Storage −70°C

Tel: 1-631-562-8517 1-516-512-3133 **Email:** info@creative-enzymes.com

1/1