

## Nucleoside Phosphorylase from bacterial, Recombinant

Cat. No. NATE-0607

Lot. No. (See product label)

### Introduction

**Description** In enzymology, a purine-nucleoside phosphorylase (EC 2.4.2.1) is an enzyme that catalyzes the chemical reaction: purine nucleoside + phosphate  $\rightleftharpoons$  purine + alpha-D-ribose 1-phosphate. Thus, the two substrates of this enzyme are purine nucleoside and phosphate, whereas its two products are purine and alpha-D-ribose 1-phosphate. This enzyme belongs to the family of glycosyltransferases, specifically the pentosyltransferases. This enzyme participates in 3 metabolic pathways: purine metabolism, pyrimidine metabolism, and nicotinate and nicotinamide metabolism.

**Applications** Nucleoside phosphorylase is used in coupled enzyme systems to measure protein dephosphorylation. Bacterial nucleoside phosphorylase has been used in a study that identified and characterized two adenosine phosphorylase activities in *Mycobacterium smegmatis*. Bacterial nucleoside phosphorylase has also been used in a study to investigate the inhibition of pyrimidine and purine nucleoside phosphorylases by a 3,5-dichlorobenzoyl-substituted 2-deoxy-D-ribose-1-phosphate derivative.

**Synonyms** purine-nucleoside phosphorylase; inosine phosphorylase; PNP; PNPase; PUNPI; PUNPII; inosine-guanosine phosphorylase; nucleotide phosphatase; purine deoxynucleoside phosphorylase; purine deoxyribonucleoside phosphorylase; purine nucleoside phosphorylase; purine ribonucleoside phosphorylase; 9030-21-1; EC 2.4.2.1

### Product Information

<b>Species</b>	Bacterial
<b>Source</b>	E. coli
<b>Form</b>	lyophilized powder
<b>EC Number</b>	EC 2.4.2.1
<b>CAS No.</b>	9030-21-1
<b>Activity</b>	> 10 units/mg protein

### Storage and Shipping Information

**Storage** -20°C