

Thermostable Purine Nucleoside Phosphorylase, 60°C

Cat. No. CEGZ-6391

Lot. No. (See product label)

Introduction

Description A recombinant bacterial purine nucleoside phosphorylase with thermal stability up to 60°C and a molecular mass of 27.5 kDa.

Applications For research and in vitro use in reversible purine nucleoside phosphorolysis and phosphate-detection assays when an almost phosphate-free preparation is required.

Synonyms PNP; PNPase; Pu-NPase; PUNP; NP; adenosine phosphorylase; inosine-guanosine phosphorylase; purine-nucleoside:phosphate ribosyltransferase

Product Information

Species Bacterial

Source Recombinant E. coli

Form Liquid

EC Number EC 2.4.2.1

CAS No. 9030-21-1

Molecular Weight 27.5 kDa

Thermal stability Thermostable up to 60°C

Specificity Purine ribonucleosides and purine 2-deoxyribonucleosides

Substrates Purine ribonucleoside or purine 2-deoxyribonucleoside; phosphate

Reaction Purine ribonucleoside + phosphate = purine + alpha-D-ribose 1-phosphate
Purine 2-deoxyribonucleoside + phosphate = purine + 2-deoxy-alpha-D-ribose 1-phosphate

Notes A double-desalted, almost phosphate-free version is available for MESG phosphate detection assays. Recombinant protein is produced in E. coli and purified by heat treatment and His6-tag affinity chromatography.

Usage Research and in vitro use only.

Storage and Shipping Information

Storage 4°C