Creative Enzymes®

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