Creative Enzymes®

Thermostable Pyrimidine Nucleoside Phosphorylase, 60°C

Cat. No. CEGZ-6389

Lot. No. (See product label)

Introduction

Description	A recombinant bacterial pyrimidine nucleoside phosphorylase with thermal stability up to 60°C and a defined molecular mass of 47.3 kDa.
Applications	For research and in vitro use in reversible phosphorolysis and synthesis of pyrimidine nucleosides, including phosphate-detection workflows when a low-phosphate preparation is required.
Synonyms	PyNP; Py-NPase; PYNP; pynpase; pyrimidine ribonucleoside phosphorylase; pyrimidine-nucleoside:phosphate (2'-deoxy)-alpha-D-ribosyltransferase

Product Information

Species	Bacterial
Source	Recombinant E. coli
Form	Liquid
EC Number	EC 2.4.2.2
CAS No.	9055-35-0
Molecular Weight	47.3 kDa
Thermal stability	Thermostable up to 60°C
Substrates	Uridine; 2-deoxyuridine; thymidine; phosphate
Reaction	Uridine + phosphate = uracil + alpha-D-ribose 1-phosphate 2-deoxyuridine + phosphate = uracil + 2-deoxy-alpha-D-ribose 1-phosphate Thymidine + phosphate = thymine + 2-deoxy-alpha-D-ribose 1-phosphate
Notes	A double-desalted, almost phosphate-free version is available for 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