

High-Thermostability Pyrimidine Nucleoside Phosphorylase, 80°C

Cat. No. CEGZ-6390

Lot. No. (See product label)

Introduction

Description

A recombinant bacterial pyrimidine nucleoside phosphorylase distinguished by thermal stability up to at least 80°C and a molecular mass of 48.4 kDa.

Applications

For research and in vitro use in reversible phosphorolysis and synthesis of pyrimidine nucleosides where elevated-temperature stability 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

48.4 kDa

Thermal stability

Thermostable up to at least 80°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

Recombinant protein 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