

## Thermostable Pyrimidine Nucleoside Phosphorylase, 60°C

Cat. No. CEGZ-6389

Lot. No. (See product label)

### Introduction

|                     |                                                                                                                                                                                           |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | A recombinant bacterial pyrimidine nucleoside phosphorylase with thermal stability up to 60°C and a defined molecular mass of 47.3 kDa.                                                   |
| <b>Applications</b> | 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. |
| <b>Synonyms</b>     | PyNP; Py-NPase; PYNP; pynpase; pyrimidine ribonucleoside phosphorylase; pyrimidine-nucleoside:phosphate (2'-deoxy)-alpha-D-ribosyltransferase                                             |

### Product Information

|                          |                                                                                                                                                                                                               |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species</b>           | Bacterial                                                                                                                                                                                                     |
| <b>Source</b>            | Recombinant E. coli                                                                                                                                                                                           |
| <b>Form</b>              | Liquid                                                                                                                                                                                                        |
| <b>EC Number</b>         | EC 2.4.2.2                                                                                                                                                                                                    |
| <b>CAS No.</b>           | 9055-35-0                                                                                                                                                                                                     |
| <b>Molecular Weight</b>  | 47.3 kDa                                                                                                                                                                                                      |
| <b>Thermal stability</b> | Thermostable up to 60°C                                                                                                                                                                                       |
| <b>Substrates</b>        | Uridine; 2-deoxyuridine; thymidine; phosphate                                                                                                                                                                 |
| <b>Reaction</b>          | Uridine + phosphate = uracil + alpha-D-ribose 1-phosphate<br>2-deoxyuridine + phosphate = uracil + 2-deoxy-alpha-D-ribose 1-phosphate<br>Thymidine + phosphate = thymine + 2-deoxy-alpha-D-ribose 1-phosphate |
| <b>Notes</b>             | 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. |
| <b>Usage</b>             | Research and in vitro use only.                                                                                                                                                                               |

### Storage and Shipping Information

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| <b>Storage</b> | 4°C |
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