

## Active Recombinant Bacterial Pyrimidine nucleoside phosphorylase, His tagged

Cat. No. PyNP-06B    Lot. No. (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant from E. coli, purified by heat treatment and His6-Tag affinity chromatography. Produced and sold for research purposes and in vitro use only. The pyrimidine nucleoside phosphorylase is of bacterial origin and thermostable up to 80 centigrade.                                                                                                                                             |
| <b>Species</b>          | Bacterial                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Description</b>      | Pyrimidine nucleoside phosphorylases catalyze the reversible phosphorolytic breakdown of the N-glycosidic bond of the pyrimidine nucleosides uridine, thymidine and 2'-deoxyuridine with the formation of the corresponding pyrimidine base and pentose-1-phosphate. The enzyme does not distinguish between alpha-D-ribose 1-phosphate and 2-deoxy-alpha-D-ribose 1-phosphate in the synthetic direction. |
| <b>Form</b>             | Liquid, buffered                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Molecular Mass</b>   | 48.4 kDa                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Storage</b>          | 4 centigrade                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>EC No.</b>           | 2.4.2.2                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>CAS No.</b>          | 9055-35-0                                                                                                                                                                                                                                                                                                                                                                                                  |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|                                    |                                                                                                                                                                                                          |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Catalyzed reaction(s)</b>       | (1) uridine + phosphate = uracil + α-D-ribose 1-phosphate (2) 2'-deoxyuridine + phosphate = uracil + 2-deoxy-α-D-ribose 1-phosphate (3) thymidine + phosphate = thymine + 2-deoxy-α-D-ribose 1-phosphate |
| <b>Example reaction conditions</b> | N/A Please note that optimal reaction conditions - especially reaction time and/or enzyme concentration - may vary depending on the substrate.                                                           |
| <b>Other characteristics</b>       | Thermostable up to (at least) 80 centigrade                                                                                                                                                              |
| <b>GENE INFORMATION</b>            |                                                                                                                                                                                                          |
| <b>Official Symbol</b>             | PyNP                                                                                                                                                                                                     |
| <b>Synonyms</b>                    | PyNP; Py-NPase; PYNP; pynpase; pyrimidine ribonucleoside phosphorylase; pyrimidine-nucleoside:phosphate (2'-deoxy)-α-D-ribosyltransferase                                                                |

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