

Active Recombinant Bacterial Pyrimidine nucleoside phosphorylase, His tagged

Cat. No. PyNP-04B Lot. No. (See product label)

SPECIFICATION

Product Overview	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 60 centigrade.
Species	Bacterial
Source	E.coli
Description	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. A double desalted, almost phosphate free version is available for application in phosphate detection assays such as the PUB assay.
Form	Liquid, buffered
Molecular Mass	47.3 kDa
Storage	4 centigrade
EC No.	2.4.2.2

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CAS No.	9055-35-0
Catalyzed reaction(s)	(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
Example reaction conditions	N/A Please note that optimal reaction conditions - especially reaction time and/or enzyme concentration - may vary depending on the substrate.
Other characteristics	Thermostable up to 60 centigrade
GENE INFORMATION	
Official Symbol	PyNP
Synonyms	PyNP; Py-NPase; PYNP; pynpase; pyrimidine ribonucleoside phosphorylase; pyrimidine-nucleoside:phosphate (2'-deoxy)-α-D-ribosyltransferase

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