

Active Recombinant *Thermococcus kodakarensis* AMP phosphorylase

Cat. No. AMPP-18T **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant from <i>E. coli</i> , purified by inclusion body purification. Produced and sold for research purposes and in vitro use only. The AMP phosphorylase AM01 corresponds to the <i>Thermococcus kodakarensis</i> deoA gene and is thermostable up to at least 80 centigrade.
Species	<i>Thermococcus kodakarensis</i>
Source	<i>E. coli</i>
Description	AMP phosphorylases catalyze the reversible conversion of AMP and phosphate to adenine and ribose 1,5-bisphosphate (R15P). In addition to AMP, AM01 exhibits phosphorylase activity towards CMP, UMP and GMP. This enzyme is sold as active inclusion bodies.
Form	Liquid, buffered
Molecular Mass	55.0 kDa (monomer)
Storage	4 centigrade
EC No.	2.4.2.57
CAS No.	N/A

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Catalyzed reaction(s)	(1) AMP + phosphate = adenine + α -D-ribose 1,5-bisphosphate (2) CMP + phosphate = cytosine + α -D-ribose 1,5-bisphosphate (3) UMP + phosphate = uracil + α -D-ribose 1,5-bisphosphate
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 (at least) 80 centigrade, activity at high temperature range (20 - 80 centigrade)
GENE INFORMATION	
Official Symbol	AMPP
Synonyms	Tk-DeoA; AMPP; AMPpase; nucleoside monophosphate phosphorylase; AMP:phosphate α -D-ribosyl 5'-phosphate-transferase

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