Creative Enzymes®

Thermostable Bacterial Adenylate Kinase, 80°C

Cat. No. CEGZ-6399

Lot. No. (See product label)

Introduction

Description	A recombinant bacterial adenylate kinase with thermal stability up to 80°C, suitable for high-temperature nucleotide phosphorylation workflows.
Applications	For research and in vitro phosphorylation of AMP or dAMP to the corresponding diphosphate nucleotides.
Synonyms	ADK; AMPK; adenylic kinase; adenylokinase; 5'-AMP-kinase; myokinase; ATP:AMP phosphotransferase

Product Information

Species	Bacterial
Source	Recombinant E. coli
Form	Liquid
EC Number	EC 2.7.4.3
CAS No.	9013-02-9
Molecular Weight	26.4 kDa
Thermal stability	Thermostable up to 80°C
Specificity	AMP and dAMP
Substrates	ATP; AMP; dAMP
Reaction	ATP + AMP = 2 ADP
Notes	Recombinant protein produced in E. coli and purified by heat treatment and His6-tag affinity chromatography. Optimal reaction time and enzyme concentration may vary depending on the substrate.
Protocol	70 mM Tris-HCl, pH 7.6 (at 50°C) 10 mM MgCl2 5 mM AMP 6 mM dATP 0.04 g/L enzyme 50°C, overnight
Usage	Research and in vitro use only.

Storage and Shipping Information

Storage	-20°C