

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 $\text{ATP} + \text{AMP} = 2 \text{ ADP}$

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