Creative Enzymes®

Thermostable Bacterial Nucleoside-Diphosphate Kinase, 50°C

Cat. No. CEGZ-6409

Lot. No. (See product label)

Introduction

Description	A recombinant bacterial nucleoside-diphosphate kinase with broad substrate acceptance and thermal stability up to 50°C.
Applications	For research and in vitro phosphorylation of nucleoside diphosphates to nucleoside triphosphates.
Synonyms	NDPK; nucleoside 5'-diphosphate kinase; nucleoside diphosphokinase; nucleotide phosphate kinase; NDP kinase; ATP:nucleoside-diphosphate phosphotransferase

Product Information

Species	Bacterial
Source	Recombinant E. coli
Form	Liquid
EC Number	EC 2.7.4.6
CAS No.	9026-51-1
Molecular Weight	16.6 kDa
Thermal stability	Thermostable up to 50°C
Specificity	Broad substrate spectrum for nucleoside diphosphates.
Substrates	ATP; nucleoside diphosphates
Reaction	ATP + nucleoside diphosphate = ADP + nucleoside triphosphate
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 37°C) 10 mM MgCl2 5 mM GDP 6 mM ATP 0.04 g/L enzyme 50°C, overnight
Usage	Research and in vitro use only.

Storage and Shipping Information

Storage	-20°C