Creative Enzymes®

Mesophilic Bacterial PPK2 Class I Polyphosphate Kinase

Cat. No. CEGZ-6411

Lot. No. (See product label)

Introduction

Description	A recombinant bacterial class I PPK2 polyphosphate kinase designed for polyphosphate-driven phosphorylation of nucleoside diphosphates.
Applications	For research and in vitro ATP regeneration and phosphorylation of nucleoside diphosphates using polyphosphate as the phosphate source.
Synonyms	PPK; PPK2 class I; polyphosphoric acid kinase; ATP:polyphosphate phosphotransferase

Product Information

Species	Bacterial
Source	Recombinant E. coli
Form	Liquid
EC Number	EC 2.7.4.1
CAS No.	9026-44-2
Molecular Weight	32.4 kDa
Specificity	PPK2 class I; preferential polyphosphate-driven phosphorylation of nucleoside diphosphates.
Substrates	ADP; polyphosphate
Reaction	ADP + (phosphate)n = ATP + (phosphate)n-1
Notes	Mesophilic enzyme suitable for ATP regeneration. Recombinant protein produced in E. coli and purified by 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 ADP 6 mM polyphosphate 0.04 g/L enzyme 37°C, overnight
Usage	Research and in vitro use only.

Storage and Shipping Information

Storage	-20°C