Creative Enzymes®

Viral dNMP Kinase, Recombinant

Cat. No. CEGZ-6406

Lot. No. (See product label)

Introduction

Description	A recombinant mesophilic deoxynucleoside monophosphate kinase of viral origin with activity toward dTMP, dGMP, and selected nucleotide analogs.
Applications	For research and in vitro phosphorylation of deoxynucleoside monophosphates and selected nucleotide analogs.
Synonyms	dNMPK; deoxynucleoside monophosphate kinase; ATP:deoxynucleoside-phosphate phosphotransferase

Product Information

Species	Viral
Source	Recombinant E. coli
Form	Liquid
EC Number	EC 2.7.4.13
CAS No.	37278-20-9
Molecular Weight	28.6 kDa
Specificity	dTMP, dGMP, and some nucleotide analogs; ATP and dATP can act as donors.
Substrates	ATP or dATP; dTMP; dGMP
Reaction	ATP + dTMP = ADP + dTDP ATP + dGMP = ADP + dGDP
Notes	Mesophilic enzyme. 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 $MgCl_2$ 5 mM dTMP 6 mM ATP 0.04 g/L enzyme 37°C, overnight
Usage	Research and in vitro use only.

Storage and Shipping Information

Storage	-20°C