Creative Enzymes®

Native Pyruvate Kinase from Thermophillic bacteria

Cat. No. NATE-1158

Lot. No. (See product label)

Introduction

Description	Pyruvate kinase is an enzyme involved in glycolysis. It catalyzes the transfer of a phosphate group from phosphoenolpyruvate (PEP) to ADP, yielding one molecule of pyruvate and one molecule of ATP.
Applications	ATP regeneration in biocatalysis.
Synonyms	Pyruvate kinase; EC 2.7.1.40; 9001-59-6; phosphoenolpyruvate kinase; phosphoenol transphosphorylase; pyruvate kinase (phosphorylating); fluorokinase; fluorokinase (phosphorylating); pyruvic kinase; pyruvate phosphotransferase; ATP:pyruvate 2-O-phosphotransferase

Product Information

Source	Thermophillic bacteria
Form	Frozen Liquid
EC Number	EC 2.7.1.40
CAS No.	9001-59-6
Optimum pH	6
Thermal stability	100% stability after 1 hour at 85°C
Buffer	50 mM Tris-HCl (pH 7.5), 50 mM NaCl
Unit Definition	One unit is defined as the amount of enzyme oxidizing 1 μmol of NADH per one minute from phosphoenolpyruvic acid as a substrate, using ε340=6.22 mM-1cm-1.

Storage and Shipping Information

Storage	Store at -20°C