Creative Enzymes®

Native Bacillus stearothermophilus Pyruvate Kinase

Cat. No. NATE-0649

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	Pyruvate kinase from Bacillus stearothermophilus has been used in a study to assess evidence that the genes for phosphofructokinase and pyruvate kinase constitute an operon. 1 It has also been used in a study to investigate the importance of the Lys221 active site for pyruvate kinase activity.
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	Bacillus stearothermophilus
Form	lyophilized powder
EC Number	EC 2.7.1.40
CAS No.	9001-59-6
Activity	100-300 units/mg protein
Buffer	Lyophilized powder containing Tris buffer salts, pH 8.5
Unit Definition	One unit will convert 1.0 µmole of phospho (enol)pyruvate to pyruvate per min at pH 7.2 at 30°C.

Storage and Shipping Information

Stability	2-8°C