

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 μ mole of phospho (enol)pyruvate to pyruvate per min at pH 7.2 at 30°C.

Storage and Shipping Information

Stability

2-8°C