

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 μ mol of NADH per one minute from phosphoenolpyruvic acid as a substrate, using $\epsilon_{340}=6.22 \text{ mM}^{-1}\text{cm}^{-1}$.

Storage and Shipping Information

Storage

Store at -20°C