

Pyruvate Kinase from Microorganism

Cat. No. NATE-1720

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.

Synonyms 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 Microorganism

Form White powder, lyophilized

EC Number EC 2.7.1.40

CAS No. 9001-59-6

Molecular Weight 68 kDa (SDS-PAGE)

Activity >200U/mg protein

Isoelectric point 5.2

pH Stability 5.0~10.0 (37°C, 20hr)

Optimum pH 7.5

Thermal stability < 60°C (pH 8.5, 20min)

Optimum temperature 65°C

Michaelis Constant 1.1mM (ADP) 2.2mM(PEP)

Inhibitors Ag⁺, Hg²⁺, Co²⁺, Fe³⁺

Unit Definition One unit will convert one micromole of phosphoenolpyruvate to pyruvate per min at pH 7.2 at 30°C.

Notes INTENDED FOR RESEARCH USE ONLY, NOT FOR USE IN HUMAN, THERAPEUTIC OR DIAGNOSTIC APPLICATIONS.

Storage and Shipping Information

Storage Store at -20°C.