Creative Enzymes
Diagnostic Enzymes

Pyruvate Kinase from Microorganism

Product Information

Cat#	NATE-1720
Abbr	PK (Microorganism)
Similar	Pyruvate Kinase
Source	Microorganism
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.
Form	White powder, lyophilized
Enzyme Commission Number	EC 2.7.1.40
Activity	>300U/mg
CAS No.	9001-59-6
Molecular Weight	68 kDa (SDS-PAGE)
Isoelectric point	5.2
pH Stability	5.0~10.0 (37℃, 20hr)
Michaelis Constant	1.1mM (ADP) 2.2mM(PEP)
Unit Definition	One unit will convert one micromole of phosphoenolpyruvate to pyruvate per min at pH 7.2 at 30℃.
Optimum pH	7.5
Optimum temperature	65℃

Tel: 1-631-562-8517 1-516-512-3133
Email:info@creative-enzymes.com
Fax:1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

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Thermal stability	< 60℃ (pH 8.5, 20min)
Storage	Store at -20°C.
Inhibitors	Ag+, Hg2+, Co2+, Fe3+
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

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