



Diagnostic Pyruvate Kinase

Product Information

Cat#	TRA-004
Specification	5KU
Description	Pyruvate kinase converts phosphoenolpyruvate and ADP into ATP and pyruvate, serving as one of the primary rate-limiting enzymes in glycolysis. It possesses two isoenzymes, M-type and L-type, with the M-type further subdivided into M1 and M2 subtypes.
CAS No.	9001-59-6
Enzyme Commission Number	EC 2.7.1.40
Synonyms	PK
Form	White amorphous powder
Source	Microorganism
Activity	≥ 300 U/mg
Unit Definition	One unit will convert 1 μmol of phosphoenolpyruvate to pyruvate per min at pH 7.2 at 30°C.
Molecular Weight	68 kDa (SDS-PAGE)
Optimum pH	7.5
Optimum temperature	65°C
pH Stability	5.0-10.0 (37°C, 20 h)
Thermal Stability	< 60°C (pH 8.5, 20 min)
Isoelectric Point	5.2
Km Value	1.1×10 ⁻³ M (ADP), 2.2×10 ⁻³ M (PEP)



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Diagnostic Enzymes

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Inhibitors	Ca ²⁺ , Co ²⁺ , Cu ²⁺ , Fe ³⁺ , Mn ²⁺ , Ni ²⁺ , NEM, Proclin, SDS
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Storage	-20°C
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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