

Pyruvate Kinase, Enzyme Activity

Catalog	Unit
TBP0085-1KU	1000 U
TBP0085-5KU	5000 U

Product Details

E.C. Number: 2.7.1.40

CAS Number: 9001-59-6

Synonym: PK

Form: Powder, lyophilized from tris chloride, pH 7.7

Molecular Weight: 237 kDa

Activity: 370 U/mg

Protein: 0.9 mg protein/mg

Contaminants: CPK \leq 1.0%

LDH \leq 0.01%

Storage Temperature: -20°C

Unit Definition

One unit will catalyze the conversion of one micromole of phosphoenolpyruvate to pyruvate per minute at pH 7.6 and 37°C.

Applications

Pyruvate kinase is an important enzyme in glucose metabolism. Mammalian PK of various tissues has distinct characteristics which are related to the specific metabolic requirements of each tissue. PK, prepared from rabbit muscle, is extensively used in the quantitative determination of ADP and of enzymes that catalyze the formation of ADP. It can also be used for the determination of phospho(enol) pyruvate and 2-phosphoglycerate.

Reconstitution

Reconstitute with 0.9% saline. Prepare further dilutions in tris buffered saline with 1% BSA. Aliquot and freeze at -20°C after reconstitution.

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