www.bioss.com.cn
sales@bioss.com.cn
techsupport@bioss.com.cn
400-901-9800

Pyruvate Kinase from rabbit muscle

产品编号： D10213

CAS: 9001-59-6

保存条件： Store at -20°C.

产品介绍： CAS: 9001-59-6

Molecular Weight: 237kDa

MDL: MFCD00081946

grade: BR

purity: 99%+

source: rabbit muscle

form： lyophilized powder

type: Type III

foreign activity: lactic dehydrogenase, creatine phosphokinase, phosphoglucomutase, and myokinase ⩽0.01%

Unit Definition: One unit will convert 1.0 µmole of phospho(enol)pyruvate to pyruvate per min at pH 7.6 at 37°C.

Application: Pyruvate kinase is an enzyme involved in glycolysis and is involved in gluconeogenesis. It has been used in plant spectrophotometric assays to measure ATP hydrolysis. Pyruvate kinase is also used to study pyruvate kinase (PK) deficiency.

Biochem/physiol Actions:

Molecular Weight: 237 kDa and exists as a tetramer of four equal subunits of molecular weight 57 kDa.

Isoelectric Point: 7.6

Optimal pH: ~7.5

Optimal Temperature: 25°C

EA280 = 0.54 for 1 mg(p)/ml, 1 cm path

Reported KM values are ATP (0.86 mM), pyruvate (10 mM), ADP (0.3 mM), and PEP (0.07 mM) in Tris buffer at pH 7.4 and 30 °C. Pyruvate kinase is highly specific for phosphoenolpyruvate, but can utilize other dinucleotide triphosphates as substrates in place of ATP including GTP, ITP, dATP, UTP, and CTP.