Creative Enzymes®

Native Microorganism Hexokinase

Cat. No. DIA-202

Lot. No. (See product label)

Introduction

Description	Native Microorganism Hexokinase for research on glucose metabolism and enzymatic mechanisms. Ideal for microbiology and biochemistry studies. Creative Enzymes provides high-quality, trusted products.
Applications	The enzyme is useful for enzymatic determination of glucose, adenosine-5'-triphosphate (ATP) and creatine phosphokinase when coupled with glucose-6-phosphate dehydrogenase.
Synonyms	Hexokinase; EC 2.7.1.1; hexokinase type IV glucokinase; hexokinase D; hexokinase type IV; hexokinase (phosphorylating); ATP-dependent hexokinase; glucose ATP phosphotransferase; ATP: D-hexose 6-phosphotransferase

Product Information

Source	Microorganism
Appearance	White amorphous powder, lyophilized
EC Number	EC 2.7.1.1
CAS No.	9001-51-8
Molecular Weight	approx. 82 kDa (by gel filtration)
Activity	GradeⅢ 150U/mg-solid or more
Contaminants	Phosphoglucose isomerase < 1.0×10^{-1}% 6-Phosphogluconate dehydrogenase < 1.0×10^{-2}% Glucose-6-phosphate dehydrogenase < 1.0×10^{-2}% Myokinase < 1.0×10^{-2}% Glutathione reductase < 5.0×10^{-1}%
Isoelectric point	4.1±0.1
pH Stability	pH 4.0-9.0 (25°C, 20hr)
Optimum pH	8.0-9.0
Thermal stability	below 45°C (pH 7.0, 30min)
Optimum temperature	50°C
Michaelis Constant	2.3×10^{-4}M (D-Glucose), 7.7×10^{-5}M (ATP)
Inhibitors	Metal ions, p-chloromercuribenzoate, iodoacetamide, SDS, etc

Storage and Shipping Information

Stability	Store at-20°