

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 Gradell 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 2.3×10⁻⁴M (D-Glucose), 7.7×10⁻⁵M (ATP)

Inhibitors Metal ions, p-chloromercuribenzoate, iodoacetamide, SDS, etc

Storage and Shipping Information

Stability Store at-20°