

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

Grade III 150U/mg-solid or more

Contaminants

Phosphoglucose isomerase < $1.0 \times 10^{-1}\%$ 6-Phosphogluconate dehydrogenase < $1.0 \times 10^{-2}\%$ Glucose-6-phosphate dehydrogenase < $1.0 \times 10^{-2}\%$ Myokinase < $1.0 \times 10^{-2}\%$ Glutathione reductase < $5.0 \times 10^{-1}\%$

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

$2.3 \times 10^{-4}\text{M}$ (D-Glucose), $7.7 \times 10^{-5}\text{M}$ (ATP)

Inhibitors

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

Storage and Shipping Information

Stability

Store at -20°