

## Hexokinase from Yeast, chemically modified

Cat. No. NATE-0989

Lot. No. (See product label)

## Introduction

**Description** Chemically Modified Yeast Hexokinase for research on glucose metabolism and enzymatic activity.

Perfect for biochemistry and molecular biology studies. Creative Enzymes ensures high-quality

solutions.

Applications Use Hexokinase in diagnostic tests for blood glucose using the hexokinase method and for the

determination of creatine kinase.

**Synonyms** hexokinase type IV glucokinase; hexokinase D; hexokinase type IV; hexokinase (phosphorylating); ATP-

dependent hexokinase; glucose ATP phosphotransferase; hexokinase; ATP:D-hexose 6-

phosphotransferase

## **Product Information**

**Source** Yeast

**Appearance** White lyophilizate

Molecular Weight 57 kD (SDS-PAGE)

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**Activity** > 40 U/mg lyophilizate

Contaminants Alcohol dehydrogenase: <0.001 ATPase: <0.05 Creatine kinase: <0.001 G6P-DH: <0.005 Glutamate

dehydrogenase: <0.05 Glutathione reductase: <0.005 Myokinase: <0.001 "NADH oxidase": <0.001 6-Phosphogluconate dehydrogenase: <0.001 Phophoglucose isomerase: <0.002 Phosphoglucomutase:

<0.02 Glucose: <0.3 µg/mg lyophilizate

Isoelectric

point

4.5-5.0

**pH Stability** 5.0-9.0

**Optimum pH** 7.0-10.0

Michaelis Phosphate buffer, 0.1 mol/l, pH 7.0; +25°C: 3.05 x 10-4 mol/l Phosphate buffer, 0.1 mol/l, pH 7.4;

**Constant** +30°C: 1.90 x 10-4 mol/l Tea buffer, 0.1 mol/l, pH 7.6; +25°C: 2.30 x 10-4 mol/l

**Specificity** Hexokinase phosphorylates D-glucose, D-fructose, D-mannose, D-glucosamin, 2-deoxyglucose. L-

Arabinose, D-xylose, L-rhamnose, D-galactose, D-lactose, sucrose, maltose, trehalose, raffinose, N-

acetyl glucosamine do not react. ATP can be partially replaced by other nucleotides.

**Activators** Mg2+, catecholamines

Inhibitors EDTA, SH-blocking compounds, sorbose-1-phosphate, polyphosphates, 6-deoxy-6-fluoroglucose, 2-C-

hydroxymethylglucose, lyxose.

## Storage and Shipping Information

**Stability** At +2 to +8°C within specification range for 18 months. Store dry.

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