

## Native Saccharomyces cerevisiae Hexokinase

Cat. No. NATE-0342

Lot. No. (See product label)

## Introduction

- **Description** Native Saccharomyces cerevisiae Hexokinase for research on glucose metabolism and enzymatic mechanisms. Ideal for biochemistry and molecular biology studies. Creative Enzymes ensures reliable products.
- **Synonyms** hexokinase type IV glucokinase; hexokinase D; hexokinase type IV; hexokinase (phosphorylating); ATPdependent hexokinase; glucose ATP phosphotransferase; hexokinase; ATP:D-hexose 6phosphotransferase; EC 2.7.1.1; 9001-51-8

## **Product Information**

Source	Saccharomyces cerevisiae
Form	Type I, Lyophilized powder containing phosphate/Citrate pH approx. 7.0; Type II, Type III, Lyophilized powder containing approx. 15% sodium Citrate.
EC Number	EC 2.7.1.1
CAS No.	9001-51-8
Molecular Weight	~ 54 kDa (monomer); ~110 kDa (dimer)
Activity	Type I, > 350 units/mg protein; Type II, > 25 units/mg protein (biuret); Type III, > 130 units/mg protein (biuret).
Optimum pH	7.5 to 9.0
Activators	Hexokinase requires Mg2+ ions (KM = $2.6 \text{ mM}$ ) for activity. Hexokinase is activated by catecholamines and related compounds.
Inhibitors	sorbose-1-phosphate, polyphosphates, 6-deoxy-6-fluoroglucose, 2-C-hydroxy-methylglucose, xylose, lyxose, and thiol reactive compounds (Hg2+ and 4-chloromercuribenzoate)
Function	ATP binding; catalytic activity; hexokinase activity; ATP binding; catalytic activity; hexokinase activity
Unit Definition	One unit will phosphorylate 1.0 $\mu$ mole of D-glucose per min at pH 7.6 at 25°C, unless otherwise indicated below.

## Storage and Shipping Information

Storage –20°C