

## Native Rhodothermus obamensis Hexokinase

Cat. No. NATE-1156

Lot. No. (See product label)

### Introduction

**Description** Native Rhodothermus obamensis Hexokinase for research on glucose phosphorylation and enzymatic activity. Perfect for microbiology and biochemistry studies. Creative Enzymes ensures reliable solutions.

**Applications** This enzyme is useful for enzymatic determination of glucose or creatinine kinase activity when coupled with glucose-6-phosphate dehydrogenase.

**Synonyms** hexokinase (phosphorylating); ATP-dependent hexokinase; glucose ATP phosphotransferase; hexokinase; ATP:D-hexose 6-phosphotransferase; EC 2.7.1.1

### Product Information

**Source** Rhodothermus obamensis

**Appearance** White to light grayish lyophilized powder.

**Form** Freeze dried powder

**EC Number** EC 2.7.1.1

**CAS No.** 9001-51-8

**Molecular Weight** 140 kDa (gel filtration)

**Activity** 100 - 400 U/mg

**Contaminants** NADH oxidase < 0.001%; ATPase < 0.01%

**pH Stability** 5~10

**Optimum pH** 7.5–8.0

**Thermal stability** Stable at 55°C and below

**Michaelis Constant** Glucose 0.46 mM ATP 0.21 mM

**Unit Definition** One unit is defined as the amount of enzyme which generates 1 μmole of NADPH per minute at 37°C under the conditions specified in the assay procedure

### Storage and Shipping Information

**Storage** Storage at -20°C in the presence of a desiccant is recommended.