

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 μ mole 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.