

Hexokinase from Saccharomyces sp.**Product Code:**173644

This enzyme is used for enzymatic determination of glucose and adenosine-5'-triphosphate (ATP) when coupled with glucose-6-phosphate dehydrogenase (Cat No. 193501+ 183626)

SKU: 173644**Category:** [Enzymes](#)**PRODUCT DESCRIPTION****SPECIFICATIONS****Product Name:** ATP: D-Hexose 6-phosphotransferase**EC:** 2.7.1.1**Appearance:** White amorphous powder lyophilized**Activity:** Grade III 150 U/mg-solid or more**Contaminants:**

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

Stability: Store at -20 °C

Molecular weight: Approx. 82,000

Isoelectric point: pH 4.8±0.1

Michaelis constants:

- 2.3×10^{-4} M (D-Glucose), 7.7×10^{-5} M (ATP)
- 8.1×10^{-6} M (NADH)

Inhibitors: Metal ions, p-chloromercuribenzoate, iodoacetamide, SDS, etc.

Activators: Mg²⁺

Optimum pH: 8.0 - 9.0

Optimum temperature: 50 °C

pH Stability: pH 4.0 - 9.0 (25 °C, 20hr)

Thermal stability: Below 45 °C (pH 7.0, 30min)