



# Creative Enzymes

Diagnostic Enzymes

## Diagnostic Hexokinase

### Product Information

<b>Cat#</b>	TRA-001
<b>Description</b>	Hexokinase, derived from yeast or microorganisms, catalyzes glucose phosphorylation and serves as the core enzyme in blood glucose diagnostic kits (such as the GOD-POD method).
<b>Applications</b>	For serum glucose and creatine kinase (CK) testing
<b>CAS</b>	9001-51-8
<b>EC</b>	EC 2.7.1.1
<b>Synonyms</b>	HK
<b>Form</b>	White amorphous powder
<b>Source</b>	Microorganism
<b>Activity</b>	≥ 500 U/mg
<b>Unit Definition</b>	One unit will convert 1 μmol of D-Glucose to D-Glucose-6- phosphate per minute at pH 8.0 at 30°C.
<b>Molecular Weight</b>	55 kDa (SDS-PAGE)
<b>Optimum pH</b>	9.0
<b>Optimum temperature</b>	50-55°C
<b>pH Stability</b>	5.0-7.5 (25°C, 17 h)
<b>Thermal Stability</b>	< 40°C (pH 8.0, 30 min)
<b>Isoelectric Point</b>	5.5
<b>Km Value</b>	2.9×10 <sup>-3</sup> M (Glucose), 1.5×10 <sup>-3</sup> M (ATP)
<b>Inhibitors</b>	Co <sup>2+</sup> , Cu <sup>2+</sup> , Fe <sup>3+</sup> , Mn <sup>2+</sup> , Ni <sup>2+</sup> , Zn <sup>2+</sup> , NEM, Proclin, SDS
<b>Storage</b>	-20°C

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