



Creative Enzymes

Diagnostic Enzymes

Hexokinase

Product Information

Cat#	TRA-045
Specification	2KU,10KU,100KU,500KU
Description	Highly active hexokinase suitable for manufacturing high-sensitivity blood glucose detection reagents.
Applications	For R&D and bulk preparation of creatine kinase, creatine kinase isoenzymes, and related reagents.
Form	White to pale yellow amorphous lyophilized powder
Source	Microorganisms
Activity	≥ 45.0 U/mg
Unit Definition	One unit is defined as the amount of enzyme required to generate 1 μmol of NADH per minute under the following reaction conditions.
Molecular Weight	36 kDa (SDS-PAGE)
Purity	≥ 90%
Optimum pH	8
Optimum temperature	45°C
pH Stability	6.5-9.0 (25°C, 16 h)
Thermal Stability	< 37°C (pH 8.0, 30 min)
Isoelectric Point	5.64
Km Value	3.2×10 ⁻⁴ M (D-glucose), 8.3×10 ⁻⁵ M (ATP)
Inhibitors	SDS, Ag ⁺ , Fe ³⁺ , Hg ²⁺ , Cu ²⁺
Protectant	BSA
Storage	Store at -25°C to -15°C for 12 months maintains > 90% activity.

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