



Native Fructosyl-peptide Oxidase (FPOX) from Microorganism

Product Information

Cat#	BDE-034
Specification	1 KU, 10 KU, 50 KU
Description	Fructosyl-peptide Oxidase (FPOX) specifically acts on glycated peptide segments, enabling highly specific enzymatic detection of glycated hemoglobin.
Applications	Used in enzymatic HbA1c (glycated hemoglobin) assay kits to enable highly specific direct measurement.
Enzyme Commission Number	EC 1.5.3
Form	Yellow amorphous lyophilized powder
Source	Microorganism
Activity	≥ 4 U/mg
Unit Definition	One unit is defined as the amount of enzyme required to catalyze the production of 1 μmol of H ₂ O ₂ per minute under specified assay conditions.
Molecular Weight	60 kDa (SDS-PAGE)
Purity	≥ 90% by SDS-PAGE
Optimum pH	6.5-7.5
Optimum temperature	37°C
pH Stability	6.5-9.5 (25°C, 16 h)
Thermal Stability	< 40°C (pH 8.0, 30 min)
Isoelectric Point	6.4
Km Value	4.0×10 ⁻³ M (fructosyl-Val-His)
Inhibitors	Hg ²⁺ , Pb ²⁺



Creative Enzymes

Diagnostic Enzymes

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Protectant Glycerin, trehalose

Storage Store at -25°C to -15°C for 12 months to maintain at least 90% activity.

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