

Native Sarcosine Oxidase from Microorganism

Product Information

Cat#	BDE-016
Specification	3 KU, 100 KU, 500 KU, 1000 KU
Description	Sarcosine Oxidase oxidizes sarcosine to produce hydrogen peroxide and plays a significant role in the diagnosis of renal function and prostate cancer.
Applications	Applied in prostate cancer diagnostic and renal function assay kits, providing detection signals through the oxidation of creatine.
Enzyme Commission Number	EC 1.5.3.1
Form	Yellow amorphous lyophilized powder
Source	Microorganism
Activity	≥ 15 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	45 kDa (SDS-PAGE)
Purity	≥ 90%
Optimum pH	8.0
Optimum temperature	50°C
pH Stability	7.0-9.5 (25°C, 16 h)
Thermal Stability	< 50°C (pH 7.5, 30 min)
Isoelectric Point	5.3
Km Value	5.6×10 ⁻³ M (Sarcosine)
Inhibitors	SDS, Zn ²⁺ , Cd ²⁺



Creative Enzymes

Diagnostic Enzymes

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Storage

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

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