

Recombinant Sarcosine Oxidase (SOX)

Product Information

Cat#	BDE-009
Description	Sarcosine oxidase (SOX) catalyzes the third step of the enzymatic creatinine assay, converting sarcosine to glycine.
Applications	Used in prostate cancer screening and renal function test kits, generating a hydrogen peroxide signal through the oxidation of creatine.
CAS No.	9029-22-5
Enzyme Commission Number	EC 1.5.3.1
Form	White powder, lyophilized
Source	Recombinant
Activity	≥ 25 U/mg-protein
Unit Definition	One unit will deaminate one micromole of Sarcosine per min at pH 8.0 at 37°C.
Molecular Weight	44 kDa (SDS-PAGE)
Optimum pH	7.0-8.5
Optimum temperature	50°C
pH Stability	7.0-10.5 (25°C, 24 h)
Thermal Stability	< 50°C (pH 8.0, 30 min)
Inhibitors	Ag ⁺ , Hg ²⁺ , Cu ²⁺
Storage	Store at ≤ -20 °C.