

Recombinant Pyranose Oxidase (PROD)

Product Information

Cat#	BDE-001
Description	Pyranose oxidase (PROD) is a glucose 2-oxidase from Basidiomycota. 1,5-Anhydroglucitol (1,5-AG), the C-1 deoxy form of pyranose glucose, has emerged as a novel marker for glycemic control. Using PROD, glucokinase, and an ATP regeneration system, serum 1,5-AG can be selectively measured, as glucokinase converts interfering glucose to glucose-6-phosphate. The hydrogen peroxide generated from PROD-mediated 1,5-AG oxidation is detected via the Trinder reaction.
Applications	Used for the detection of the oxidation of carbohydrate substrates, suitable for biosensors and biochemical analysis systems.
CAS No.	37250-80-9
Enzyme Commission Number	EC 1.1.3.10
Form	Yellow liquid
Source	Recombinant
Activity	≥ 30 U/mg-protein
Unit Definition	One unit is defined as the amount of enzyme which produces one micromole of hydrogen peroxide per minute at pH 7.0 and at 37°C.
Molecular Weight	66 kDa (SDS-PAGE)
Storage	Aliquot and store at ≤ -20 °C.