

**L- $\alpha$ -Glycerophosphate Oxidase from Microorganism**

**Product Code:** 193715

**EC no:** 1.1.3.21

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**SKU:** 193715

**Category:** [Enzymes](#)

**PRODUCT DESCRIPTION**

**SPECIFICATIONS**

**EC 1.1.3.21**

**Product name:** sn-Glycerol-3-phosphate: oxygen 2- oxidoreductase

**Appearance:** Yellowish amorphous powder lyophilized

**Activity:** Grade III, 15 U/mg-solid or more

**Contaminants:**

- Lactate oxidase  $\leq 2.0 \times 10^{-4}$  %
- Adenosine triphosphatase  $\leq 2.0 \times 10^{-4}$  %

**Stabilizers:** FAD, amino acids

**Stability:** Stable at - 20 °C for at least 12 months

**Molecular weight:** Approx. 67,000 (by SDS-PAGE)

**Isoelectric point**  $4.6 \pm 0.1$

**Michaelis constants:**  $1.3 \times 10^{-3} \text{M}$

**Inhibitors:** Ionic detergents, SH reagents, Metal ions, etc.

**Optimum pH:** 6.0 – 7.0

**Optimum temperature:** 45°C

**pH Stability:** pH 4.5–8.5 (25°C, 20hr)

**Thermal stability:** Below 45 °C (pH 6.5, 15min)