

## **Pyruvate Oxidase from Microorganism**

**Product Code:** 193669

**EC no:** 1.2.3.3

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**SKU:** 193669

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

## **PRODUCT DESCRIPTION**

### **SPECIFICATIONS:**

#### **EC 1.2.3.3**

**Product name:** Pyruvate: oxygen 2-oxidoreductase (phosphorylating)

**Appearance:** Yellowish amorphous powder, lyophilized

**Activity:** Grade III, 1.5 U/mg-solid or more

**Contaminants:** ATPase:  $\leq 5.0 \times 10^{-2} \%$ , GOT & GPT:  $\leq 5.0 \times 10^{-2} \%$

**Stability:** Stable at 2 – 8 °C for at least 12 months

**Stabilizers:** Sugars, FAD

**Molecular weight:** approx. 260,000

**Isoelectric point** 4.3

**Michaelis constant:**  $3.4 \times 10^{-4} \text{M}$  (Pyruvate)

**Inhibitors:**  $\text{Fe}^{2+}$ ,  $\text{Zn}^{2+}$ ,  $\text{Cu}^{2+}$ ,  $\text{Ag}^{+}$ ,  $\text{Hg}^{2+}$

**Optimum pH:** 5.7

**Optimum temperature:**  $65^{\circ}\text{C}$

**pH Stability:** pH 5.7 - 6.5 ( $25^{\circ}\text{C}$ , 20hr)

**Thermal stability:** Below  $45^{\circ}\text{C}$  (pH 6.0, 15min)