

**Cholesterol Oxidase from Streptomyces sp.**

**Product Code:** 172803

**EC no:** 1.1.3.6

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**SKU:** 172803

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

## PRODUCT DESCRIPTION

## SPECIFICATIONS

### EC 1.1.3.6

**Product name:** Cholesterol: oxygen oxidoreductase

**Appearance:** Yellowish amorphous powder, lyophilized

**Activity:** Grade III, 15 U/mg or more (contains approx. 40% stabilizers)

**Contaminants:** Catalase  $\leq$  0.1 %, Cholesterol esterase: < 0.01 %

**Stabilizers:** Bovine serum albumin, amino acids

**Stability:** Stable at - 20 °C for at least one year

**Molecular weight:** Approx. 34,000 (by gel-filtration)

**Isoelectric point:**  $5.1 \pm 0.1$  and  $5.4 \pm 0.1$

**Michaelis constants:**  $4.3 \times 10^{-5}$  M (Cholesterol)

**Inhibitors:** Ionic detergents,  $\text{Ag}^+$ ,  $\text{Hg}^{2+}$

**Optimum pH:** 6.5 – 7.0

**Optimum temperature:** 45 - 50 °C

**pH Stability:** pH 5.0 – 10.0 (25 °C, 20hr)

**Thermal stability:** Below 45 °C (pH 7.0, 15min)