

## Native Microorganism Cholesterol Oxidase

Cat. No. DIA-138

Lot. No. (See product label)

### Introduction

**Description** Recombinant Cholesterol Oxidase belongs to the family of oxidoreductases, specifically those acting on the CH-OH group of donor with oxygen as acceptor. This enzyme participates in bile acid biosynthesis.

**Applications** This enzyme is useful for enzymatic determination of cholesterol in serum when coupled with cholesterol esterase in clinical analysis.

**Synonyms** Cholesterol-O<sub>2</sub> oxidoreductase; 3 beta-Hydroxy steroid oxidoreductase; 3β-hydroxysteroid: oxygen oxidoreductase; cholesterol: oxygen oxidoreductase; cholesterol oxidase; EC 1.1.3.6

### Product Information

**Source** Microorganism

**Appearance** Yellowish amorphous powder, lyophilized

**EC Number** EC 1.1.3.6

**CAS No.** 9028-76-6

**Molecular Weight** approx. 55 kDa (by gel-filtration)

**Activity** Gradelll 12U/mg-solid or more

**Contaminants** Catalase < 1.0×10<sup>-1</sup>% Cholesterol esterase < 1.0×10<sup>-2</sup>%

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

**Optimum pH** 7.0-8.0

**Thermal stability** below 60°C (pH 7.0, 15min)

**Optimum temperature** 60°C

**Michaelis Constant** 3.0×10<sup>-5</sup>M(Cholesterol)

**Inhibitors** Ionic detergents, Hg<sup>++</sup>

**Stabilizers** Bovine serum albumin, amino acids

### Storage and Shipping Information

**Stability** Stable at -20°C for at least 9 months