

## Native *Nocardia erythropolis* Cholesterol Oxidase

Cat. No. NATE-0127

Lot. No. (See product label)

### Introduction

**Description** Cholesterol oxidase (CHOD) is a monomeric flavoprotein containing FAD that catalyzes the first step in cholesterol catabolism. This bifunctional enzyme oxidizes cholesterol to cholest-5-en-3-one in an FAD-requiring step, which is then isomerized to cholest-4-en-3-one with the release of H<sub>2</sub>O<sub>2</sub>.

**Synonyms** EC 1.1.3.6; CHOD; cholesterol-O<sub>2</sub> oxidoreductase; 3 $\beta$ -hydroxy steroid oxidoreductase; 3 $\beta$ -hydroxysteroid:oxygen oxidoreductase; 9028-76-6

### Product Information

**Source** *Nocardia erythropolis*

**Form** in 1 M ammonium sulfate solution, pH 6, solution (slightly hazy)

**EC Number** EC 1.1.3.6

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

**Activity** > 15 U/mL

**Unit Definition** 1 U corresponds to the amount of enzyme which converts 1  $\mu$ mol cholesterol to 4-cholesten-3-one per minute at pH 7.5 and 25°C

### Storage and Shipping Information

**Storage** 2-8°C

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