

## cholesterol oxidase

Cat. No. EXWM-0424

Lot. No. (See product label)

### Introduction

#### Description

Contains FAD. Cholesterol oxidases are secreted bacterial bifunctional enzymes that catalyse the first two steps in the degradation of cholesterol. The enzyme catalyses the oxidation of the 3 $\beta$ -hydroxyl group to a keto group, and the isomerization of the double bond in the oxidized steroid ring system from the  $\Delta^5$  position to  $\Delta^6$  position (cf. EC 5.3.3.1, steroid  $\Delta$ -isomerase).

#### Synonyms

cholesterol- O<sub>2</sub> oxidoreductase; 3 $\beta$ -hydroxy steroid oxidoreductase; 3 $\beta$ -hydroxysteroid:oxygen oxidoreductase

### Product Information

#### Form

Liquid or lyophilized powder

#### EC Number

EC 1.1.3.6

#### CAS No.

9028-76-6

#### Reaction

cholesterol + O<sub>2</sub> = cholest-5-en-3-one + H<sub>2</sub>O<sub>2</sub>

#### Notes

This item requires custom production and lead time is between 5-9 weeks. We can custom produce according to your specifications.

### Storage and Shipping Information

#### Storage

Store it at +4 °C for short term. For long term storage, store it at -20 °C~-80 °C.