

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-O2 oxidoreductase; 3 beta-Hydroxy steroid oxidoreductase; 3 β -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

GradeIII 12U/mg-solid or more

Contaminants

Catalase < 1.0 $\times 10^{-1}$ % Cholesterol esterase < 1.0 $\times 10^{-2}$ %

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 $\times 10^{-5}$ M(Cholesterol)

Inhibitors

Ionic detergents, Hg⁺⁺

Stabilizers

Bovine serum albumin, amino acids

Storage and Shipping Information

Stability

Stable at -20°C for at least 9 months