

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; 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 $< 1.0 \times 10^{-1}\%$ 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

60°C

temperature

3.0×10⁻⁵M(Cholesterol)

Michaelis Constant

Inhibitors

Ionic detergents, Hg++

Stabilizers Bovine serum albumin, amino acids

Storage and Shipping Information

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

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