

Cholesterol oxidase from *E. coli*, Recombinant

Cat. No. DIA-406

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.

Synonyms EC 1.1.3.6, cholesterol-O₂ oxidoreductase; 3 β -hydroxy steroid oxidoreductase; 3 β -hydroxysteroid:oxygen oxidoreductase; 9028-76-6

Product Information

Species *E. coli*

Source *E. coli*

Appearance Yellow lyophilizate

EC Number EC 1.1.3.6

CAS No. 9028-76-6

Molecular Weight ca. 58 kDa

Activity > 5 U/mg lyophilizate

Contaminants catalase < 2.0% cholesterol esterase < 0.02%

pH Stability 5.0-10.0

Optimum pH 7

Thermal stability below 55°C

Optimum temperature 50°C

Michaelis Constant 3.5×10^{-4} M (cholesterol)

Structure monomer of 55 kDa (SDS-PAGE)

Inhibitors ionic detergents, Ag⁺, Hg²⁺

Unit Definition One unit (U) is defined as the amount of enzyme which produces 1 μ mol of hydrogen peroxide per min at 37°C and pH 7.0.