Creative Enzymes®

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; 3β-hydroxy steroid oxidoreductase; 3β-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 x 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 µmol of hydrogen peroxide per min at 37°C and pH 7.0.