Creative Enzymes®

Cholesterol oxidase from E. coli, Recombinant (liquid)

Cat. No. DIA-408

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
Form	Liquid form (30% sucrose solution)
EC Number	EC 1.1.3.6
CAS No.	9028-76-6
Molecular Weight	ca. 59 kDa
Activity	> 200 U/ml
pH Stability	3.5–8.5
Optimum pH	6.5–8.0
Thermal stability	below 70°C
Optimum temperature	55°C–65°C
Michaelis Constant	1.9 x 10^-5 M (cholesterol)
Structure	monomer of 60 kDa (SDS-PAGE)
Inhibitors	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.

Storage and Shipping Information

Stability	stable at 25°C for at least one month