

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; 3 β -hydroxy steroid oxidoreductase; 3 β -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 μ mol 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