

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 ca.

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 b

stability

below 55°C

Optimum temperature

50°C

temperature

3.5 x 10^-4 M (cholesterol)

Michaelis Constant

Structure monomer of 55 kDa (SDS-PAGE)

Inhibitors ionic detergents, Ag+, Hg2+

Unit

One unit (U) is defined as the amount of enzyme which produces 1 µmol of hydrogen peroxide per min

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Definition at 37°C and pH 7.0.

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