

Native Pseudomonas sp. Cholesterol Oxidase

Cat. No. DIA-136

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 Cholesterol-O₂ oxidoreductase; 3 beta-Hydroxy steroid oxidoreductase; 3 β -hydroxysteroid: oxygen oxidoreductase; cholesterol: oxygen oxidoreductase; cholesterol oxidase; EC 1.1.3.6

Product Information

Source Pseudomonas sp.

Appearance Yellowish amorphous powder, lyophilized

EC Number EC 1.1.3.6

CAS No. 9026-00-0

Molecular Weight about 34 kDa (gel filtration)

Activity Grade III 15 U/mg-solid or more(contg. approx. 40% of stabilizers)

Contaminants Catalase < 1.0%; Cholesterol esterase < 1.0 \times 10⁻²%

Isoelectric point 5.1 \pm 0.1 and 5.4 \pm 0.1

pH Stability pH 5.0~10.0 (25°C, 20hr)

Optimum pH 6.5~7.0

Thermal stability below 45°C (pH 7.0, 15min)

Optimum temperature 45~50°C

Michaelis Constant 2.1 \times 10⁻² M (Creatine)

Structure dimer

Inhibitors onic detergents, Hg²⁺, Ag

Storage and Shipping Information

Stability Stable at -20°C for at least 6 months