Creative Enzymes®

Native Nocardia erythropolis Cholesterol Oxidase

Cat. No. NATE-0127

Lot. No. (See product label)

Introduction

Description	Cholesterol oxidase (CHOD) is a monomeric flavoprotein containing FAD that catalyzes the first step in cholesterol catabolism. This bifunctional enzyme oxidizes cholesterol to cholest-5-en-3-one in an FAD-requiring step, which is then isomerized to cholest-4-en-3-one with the release of H2O2.
Synonyms	EC 1.1.3.6; CHOD; cholesterol-O2 oxidoreductase; 3β-hydroxy steroid oxidoreductase; 3β-hydroxysteroid:oxygen oxidoreductase; 9028-76-6

Product Information

Source	Nocardia erythropolis
Form	in 1 M ammonium sulfate solution, pH 6, solution (slightly hazy)
EC Number	EC 1.1.3.6
CAS No.	9028-76-6
Activity	> 15 U/mL
Unit Definition	1 U corresponds to the amount of enzyme which converts 1 µmol cholesterol to 4-cholesten-3-one per minute at pH 7.5 and 25°C

Storage and Shipping Information

Storage	2-8°C
Stability	Stable at –20°C for at least one year