Creative Enzymes®

Chemically modified Cholesterol Oxidase from Brevibacterium species

Cat. No. DIA-284

Lot. No. (See product label)

Introduction

Description	Oxidoreductase that catalyzes the interconversion of cholesterol to cholest-4-en-3-one. Rely on the proven diagnostic quality of this product.
Applications	Use Cholesterol Oxidase in diagnostic tests for the determination of cholesterol in combination with Cholesterol Esterase.
Synonyms	Cholesterol-O2 oxidoreductase; 3 beta-Hydroxy steroid oxidoreductase; 3β-hydroxysteroid: oxygen oxidoreductase; cholesterol: oxygen oxidoreductase; cholesterol oxidase

Product Information

Source	Brevibacterium species
Appearance	Yellow lyophilizate
Molecular Weight	60 kD (native and SDS)
Activity	10-20 U/mg lyophilizate
Contaminants	Catalase: <6.0 Glucose oxidase: <0.01 "NADH oxidase": <0.01 Uricase: <0.01
Isoelectric point	~5.0
pH Stability	5.0-10.0
Optimum pH	5.5-8.0
Thermal stability	Up to +55°C
Michaelis Constant	Cholesterol: 1 x 10-4 mol/l
Specificity	cholesterol 100% pregnenolon 52% stigmasterol 17% dehydroandrosterone 0.5% androsterone 0% estradiol 0% cholate 0%
Activators	Non ionic detergents
Inhibitors	Hg2+, ZnCl2, SDS

Storage and Shipping Information

Storage	No decrease in activity over 6 weeks at +35°C.
Stability	At -15 to -25°C within specification range for 12 months. Store dry. Protect from light.