

# Chemically modified Cholesterol Oxidase from *Brevibacterium* species

*Cat. No. DIA-284*

*Lot. No.* (See product label)

## Introduction

<b>Description</b>	Oxidoreductase that catalyzes the interconversion of cholesterol to cholest-4-en-3-one. Rely on the proven diagnostic quality of this product.
<b>Applications</b>	Use Cholesterol Oxidase in diagnostic tests for the determination of cholesterol in combination with Cholesterol Esterase.
<b>Synonyms</b>	Cholesterol-O <sub>2</sub> oxidoreductase; 3 beta-Hydroxy steroid oxidoreductase; 3 $\beta$ -hydroxysteroid: oxygen oxidoreductase; cholesterol: oxygen oxidoreductase; cholesterol oxidase

## Product Information

<b>Source</b>	<i>Brevibacterium</i> species
<b>Appearance</b>	Yellow lyophilizate
<b>Molecular Weight</b>	60 kD (native and SDS)
<b>Activity</b>	10-20 U/mg lyophilizate
<b>Contaminants</b>	Catalase: <6.0 Glucose oxidase: <0.01 "NADH oxidase": <0.01 Uricase: <0.01
<b>Isoelectric point</b>	~5.0
<b>pH Stability</b>	5.0-10.0
<b>Optimum pH</b>	5.5-8.0
<b>Thermal stability</b>	Up to +55°C

**Michaelis Constant** Cholesterol:  $1 \times 10^{-4}$  mol/l

**Specificity** cholesterol 100% pregnenolon 52% stigmasterol 17% dehydroandrosterone 0.5% androsterone 0% estradiol 0% cholate 0%

**Activators** Non ionic detergents

**Inhibitors**  $\text{Hg}^{2+}$ ,  $\text{ZnCl}_2$ , SDS

### ***Storage and Shipping Information***

**Storage** No decrease in activity over 6 weeks at  $+35^\circ\text{C}$ .

**Stability** At  $-15$  to  $-25^\circ\text{C}$  within specification range for 12 months. Store dry. Protect from light.