

Chemically modified Cholesterol Oxidase from Brevibacterium species

Cat. No. DIA-284

Lot. No. (See product label)

Introduction

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| 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; 3 β -hydroxysteroid: oxygen oxidoreductase; cholesterol: oxygen oxidoreductase; cholesterol oxidase |

Product Information

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| 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 | Hg ²⁺ , ZnCl ₂ , SDS |

Storage and Shipping Information

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| 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. |