

## Cholesterol Oxidase from Microorganism

### Product Information

<b>Cat#</b>	DIA-138
<b>Similar</b>	Cholesterol Oxidase
<b>Source</b>	Microorganism
<b>Description</b>	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 H <sub>2</sub> O <sub>2</sub> .
<b>Form</b>	Freeze dried powder
<b>Enzyme Commission Number</b>	EC 1.1.3.6
<b>Activity</b>	12U/mg-solid or more
<b>CAS No.</b>	9028-76-6
<b>Contaminants</b>	Catalase < 1.0×10 <sup>-1</sup> % Cholesterol esterase < 1.0×10 <sup>-2</sup> %
<b>pH Stability</b>	pH 5.0-10.0 (25°C, 20hr)
<b>Michaelis Constant</b>	3.0×10 <sup>-5</sup> M(Cholesterol)
<b>Optimum pH</b>	7.0-8.0
<b>Optimum temperature</b>	60°C
<b>Thermal stability</b>	below 60°C (pH 7.0, 15min)
<b>Stability</b>	Stable at-20°C for at least 9 months
<b>Stabilizers</b>	Bovine serum albumin, amino acids
<b>Inhibitors</b>	Ionic detergents, Hg <sup>++</sup>
<b>Synonyms</b>	Cholesterol-O <sub>2</sub> oxidoreductase; 3 beta-Hydroxy steroid oxidoreductase; 3β-



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hydroxysteroid: oxygen oxidoreductase; cholesterol: oxygen oxidoreductase;  
cholesterol oxidase; EC 1.1.3.6

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