



Creative Enzymes

Diagnostic Enzymes

Cholesterol Oxidase from Microorganism

Product Information

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

Tel: 1-631-562-8517 1-516-512-3133

Email:info@creative-enzymes.com

Fax:1-631-938-8127

45-1 Ramsey Road, Shirley, NY11967, USA



Creative Enzymes

Diagnostic Enzymes

Cholesterol Oxidase from Microorganism

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

Tel: 1-631-562-8517 1-516-512-3133

Email: info@creative-enzymes.com

Fax: 1-631-938-8127

45-1 Ramsey Road, Shirley, NY 11967, USA