Creative Enzymes
Diagnostic Enzymes

# Cholesterol Esterase from Schizophyllum commune

## Product Information

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| **Cat#** | DIA-133 |
| **Similar** | Cholesterol Esterase |
| **Source** | Schizophyllum commune |
| **Description** | Cholesterol esterase (CE) is also known as cholesterol ester hydrolase. This enzyme catalyzes the following reaction: Sterol Ester --------> Sterol + Fatty Acid. Cholesterol esterase activity has been demonstrated in pancreas, intestine, liver and kidney. The enzyme is inactivated by proteolytic enzymes but stabilized by proteolytic enzyme inhibitors and by bile salts. |
| **Form** | Freeze dried powder |
| **Enzyme Commission Number** | EC 3.1.1.13 |
| **Activity** | 2.0 U/mg-solid or more (containing approx. 20% of stabilizers) |
| **CAS No.** | 9026-00-0 |
| **Isoelectric point** | 4.1±0.1 |
| **pH Stability** | pH 2.5-7.5 (25°C, 20hr) |
| **Michaelis Constant** | $3.9\times10^{-5}$M (Linoleate), $9.2\times10^{-5}$M (Palmitate), $6.3\times10^{-5}$M (Decylate), $8.8\times10^{-5}$M (Propionate) |
| **Optimum pH** | 4.8-8.0 (Cholesterol linoleate), 5.0 (serum) |
| **Optimum temperature** | 55-60°C |
| **Thermal stability** | below 55°C (pH 5.5, 10min) |
| **Stability** | Store at -20°C |
| **Stabilizers** | Na-Cholate |

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| **Inhibitors** | Heavy metal ions ($Hg^{++}$, $Ag^{+}$, $Fe^{+++}$) |
| **Synonyms** | cholesterol esterase; cholesteryl ester synthase; triterpenol esterase; cholesteryl esterase; cholesteryl ester hydrolase; sterol ester hydrolase; cholesterol ester hydrolase; cholesterase; acylcholesterol lipase; EC 3.1.1.13; Sterol esterase |

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