Creative Enzymes
Diagnostic Enzymes

Cholesterol Esterase from Pseudomonas sp.

Product Information

Cat#	DIA-134
Similar	Cholesterol Esterase
Source	Pseudomonas sp.
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	100U/mg-solid or more (containing approx. 40% of stabilizers)
CAS No.	9026-00-0
Contaminants	Catalase < 1.0×10^{-2}%
Isoelectric point	5.9±0.1
pH Stability	pH 5.0-9.0 (25°C, 24hr)
Michaelis Constant	5.4×10^{-5}M (Linoleate), 6.6×10^{-5}M (Oleate), 3.7×10^{-5}M (Linolenate), 1.5×10^{-4}M (Palmitate), 1.2×10^{-4}M (Myristate), 2.3×10^{-5}M (Stearate)
Optimum pH	7.0-9.0
Optimum temperature	40°C
Thermal stability	below 55°C (pH 7.5, 10min)
Stability	Stable at-20°C for at least one year

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Stabilizers	Mg^{++}, Na-cholate, bovine serum albumin
Inhibitors	Hg^{++}, Ag^{+}, ionic detergents
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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