

## **Cholesterol Esterase from Pseudomonas sp.**

## **Product Information**

catalyzes the following reaction: Sterol Ester> Sterol + Fatty Acid.  Cholesterol esterase activity has been demonstrated in pancreas, intestine, liver and		
Source Pseudomonas sp.  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 EC 3.1.1.13  Commission Number  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 (Palmitate), 1.2×10-4M (Myristate), 2.3×10-5M (Stearate)  Optimum pH 7.0-9.0  Optimum pH 7.0-9.0  Optimum 40°C  temperature  Thermal stability below 55°C (pH 7.5, 10min)	Cat#	DIA-134
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 EC 3.1.1.13  Commission Number  Activity 100U/mg-solid or more (containing approx. 40% of stabilizers)  CAS No. 9026-00-0  Contaminants Catalase < 1.0×10 <sup>-2</sup> %  Isoelectric point 5.9±0.1  pH Stability pH 5.0-9.0 (25°C, 24hr)  Michaelis Constant 5.4×10 <sup>-8</sup> M (Linoleate), 6.6×10 <sup>-8</sup> M (Oleate), 3.7×10 <sup>-8</sup> M (Linolenate), 1.5×10 <sup>-4</sup> M (Palmitate), 1.2×10 <sup>-4</sup> M (Myristate), 2.3×10 <sup>-8</sup> M (Stearate)  Optimum pH 7.0-9.0  Optimum 40°C  temperature  Thermal stability below 55°C (pH 7.5, 10min)	Similar	Cholesterol Esterase
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temperature Thermal stability below 55°C (pH 7.5, 10min)	Optimum pH	7.0-9.0
	•	40°C
Stability Stable at-20°C for at least one year	Thermal stability	below 55°C (pH 7.5, 10min)
	Stability	Stable at-20°C for at least one year

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## **Cholesterol Esterase from Pseudomonas sp.**

Stabilizers	Mg**, Na-cholate, bovine serum albumin
Inhibitors	Hg <sup>++</sup> , Ag <sup>+</sup> , 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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