

Cholesterol Esterase from Schizophyllum commune

Product Information

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	3.9×10 ⁻⁵ M (Linoleate), 9.2×10 ⁻⁵ M (Palmitate), 6.3×10 ⁻⁵ M (Decylate), 8.8×10 ⁻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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