

## Cholesterol Esterase from *Schizophyllum commune*

### Product Information

<b>Cat#</b>	DIA-133
<b>Similar</b>	Cholesterol Esterase
<b>Source</b>	<i>Schizophyllum commune</i>
<b>Description</b>	<p>Cholesterol esterase (CE) is also known as cholesterol ester hydrolase. This enzyme catalyzes the following reaction: Sterol Ester -----&gt; Sterol + Fatty Acid.</p> <p>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.</p>
<b>Form</b>	Freeze dried powder
<b>Enzyme Commission Number</b>	EC 3.1.1.13
<b>Activity</b>	2.0 U/mg-solid or more (containing approx. 20% of stabilizers)
<b>CAS No.</b>	9026-00-0
<b>Isoelectric point</b>	4.1±0.1
<b>pH Stability</b>	pH 2.5-7.5 (25°C, 20hr)
<b>Michaelis Constant</b>	3.9×10 <sup>-5</sup> M (Linoleate), 9.2×10 <sup>-5</sup> M (Palmitate), 6.3×10 <sup>-5</sup> M (Decylate), 8.8×10 <sup>-5</sup> M (Propionate)
<b>Optimum pH</b>	4.8-8.0 (Cholesterol linoleate), 5.0 (serum)
<b>Optimum temperature</b>	55-60°C
<b>Thermal stability</b>	below 55°C (pH 5.5, 10min)
<b>Stability</b>	Store at -20°C
<b>Stabilizers</b>	Na-Cholate



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<b>Inhibitors</b>	Heavy metal ions (Hg <sup>++</sup> , Ag <sup>+</sup> , Fe <sup>+++</sup> )
<b>Synonyms</b>	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