

## Native Pseudomonas sp. Cholesterol Esterase

Cat. No. DIA-134

Lot. No. (See product label)

Introduction

**Description** Sterol esterase belongs to the family of hydrolases, specifically those acting on carboxylic ester bonds.

The systematic name of this enzyme class is steryl-ester acylhydrolase. This enzyme participates in

bile acid biosynthesis.

Applications This enzyme is useful for enzymatic determination of total cholesterol when coupled with cholesterol

oxidase in clinical analysis.

**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

## **Product Information**

**Source** Pseudomonas sp.

Appearance Light brown amorphous powder, lyophilized

**EC Number** EC 3.1.1.13

*CAS No.* 9026-00-0

Molecular

approx. 300 kDa

Weight

Activity

GradeIII 100U/mg-solid or more (containing approx. 40% of stabilizers)

**Contaminants** Catalase  $< 1.0 \times 10^{-2}\%$ 

Isoelectric

point

 $5.9 \pm 0.1$ 

**pH Stability** pH 5.0-9.0 (25°C, 24hr)

**Optimum pH** 7.0-9.0

Thermal stability

below 55°C (pH 7.5, 10min)

Scabincy

**Optimum** 40°C

temperature

Michaelis

 $5.4\times10^{-5}$ M (Linoleate),  $6.6\times10^{-5}$ M (Oleate),  $3.7\times10^{-5}$ M (Linolenate),  $1.5\times10^{-4}$ M (Palmitate),  $1.2\times10^{-4}$ M

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**Constant** (Myristate), 2.3×10<sup>-5</sup>M (Stearate)

*Inhibitors* Hg<sup>++</sup>, Ag<sup>+</sup>, ionic detergents

**Stabilizers** Mg++, Na-cholate, bovine serum albumin

Storage and Shipping Information

**Stability** Stable at-20°C for at least one year

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