

Cholesterol Esterase from Pseudomonas sp.

Product Code: 172612

EC: 3.1.1.13

SKU: 172612

Category: [Enzymes](#)

PRODUCT DESCRIPTION

SPECIFICATIONS

EC 3.1.1.13

Product name: Steryl-ester acylhydrolase

Appearance: Light brown amorphous powder lyophilized

Activity: Grade III, 100 U/mg-solid or more (containing approx. 40% of stabilizers)

Contaminant: Catalase $\leq 1.0 \times 10^{-2}\%$

Stabilizers: Mg²⁺, Na-cholate, bovine serum albumin

Stability: Stable at - 20 °C for at least 12 months

Molecular weight: approx. 300,000

Isoelectric point: 5.9 ± 0.1

Michaelis constants:

- $5.4 \times 10^{-5} \text{M}$ (Linoleate), $6.6 \times 10^{-5} \text{M}$ (Oleate)
- $3.7 \times 10^{-5} \text{M}$ (Linolenate), $1.5 \times 10^{-4} \text{M}$ (Palmitate)
- $1.2 \times 10^{-4} \text{M}$ (Myristate), $2.3 \times 10^{-5} \text{M}$ (Stearate)

Inhibitors: Hg^{2+} , Ag^{+} , ionic detergents

Optimum pH: 7.0 - 9.0

Optimum temperature: 40 °C

pH Stability: 5.0 - 9.0 (25 °C, 24hr)

Thermal stability: below 55 °C (pH 7.5, 10min)