

TECHNICAL INFORMATION

Catalog Number: 105439

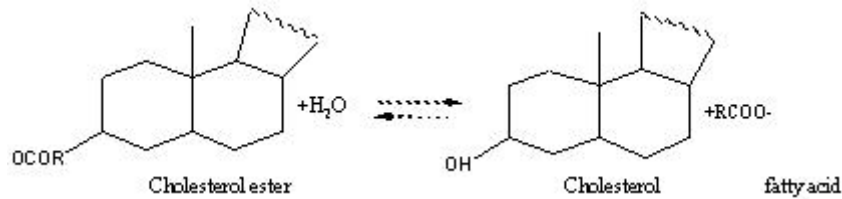
Cholesterol esterase

CAS # 9026-00-0

Molecular Weight: approx. 300,000

Source: *Pseudomonas* sp.

Steryl-ester acylhydrolase (EC 3.1.1.13)



Physical Appearance: Light brown amorphous powder, lyophilized

Activity:

Grade III 100 U/mg-solid or more

(containing approx. 40% of stabilizers)

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

Solubility: Soluble in distilled water or dilute buffer

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

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

Isoelectric Point: 5.95±0.55

Michaelis constants:

5.4×10^{-5} M(Linoleate), 6.6×10^{-5} M(Oleate)

3.7×10^{-5} M(Linolate), 1.5×10^{-5} M(Palmitate)

1.2×10^{-5} M(Myristate), 2.3×10^{-5} M(Stearate)

Inhibitors: Hg²⁺ - Ag⁺ ionic detergents

Optimum pH: 7.0 - 9.0

Optimum temperature: 40°C

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

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