

Cholesterol esterase, Enzyme Activity

Catalog	Unit
TBP0012-100U	100 U
TBP0012-500U	500 U

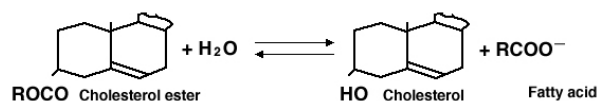
Preparation and Specification

Appearance: Light brown amorphous powder, lyophilized

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

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

Stabilizers: Mg⁺⁺, Na-cholate, BSA



Properties

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

Molecular weight: approx. 300,000

Isoelectric point: 5.9±0.1

Michaelis constants: 5.4×10⁻⁵M (Linoleate)

6.6×10⁻⁵M (Oleate)

3.7×10⁻⁵M (Linolenate)

1.5×10⁻⁴M (Palmitate)

1.2×10⁻⁴M (Myristate)

2.3×10⁻⁵M (Stearate)

Inhibitors: Hg⁺⁺, 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, 10min)

Applications

This enzyme is useful for enzymatic determination of total cholesterol when coupled with cholesterol oxidase (COO-311, COO-321, COO-331) in clinical analysis.

For research use only