Tribioscience

Cholesterol oxidase, Enzyme Activity

Catalog	Unit
TBP0013-500U	500 U
TBP0013-1KU	1000 U

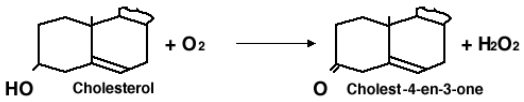
Preparation and Specification

Appearance: Yellowish amorphous powder, lyophilized

Activity: GradeIII 12U/mg-solid or more

Contaminants: Catalase $\leq 1.0\times10^{-1}$%, Cholesterol esterase $\leq 1.0\times10^{-2}$%

Stabilizers: BSA, amino acids



Properties

Stability: Stable at −20℃ for at least one year

Molecular weight: approx. 55,000 (by gel-filtration)

Isoelectric point: 4.6±0.1, 4.9±0.1 and 5.2±0.1

Michaelis constant: 2.1×10^{-5}M (Cholesterol)

Inhibitors: Ionic detergents, Ag^{+}, Hg^{++}

Optimum pH: 7.0−8.0

Optimum temperature: 60℃

pH Stability: pH 5.0−10.0 (25℃, 20hr)

Thermal stability: below 55℃ (pH 7.0, 15min)

Applications

This enzyme is useful for enzymatic determination of cholesterol in serum when coupled with cholesterol esterase (COE-301, COE-311, COE-313) in clinical analysis.

For research use only