

Chemically modified *Pseudomonas* species Cholesterol Esterase

Cat. No. DIA-281

Lot. No. (See product label)

Introduction

Description Hydrolase that splits fatty acids from sterols. Take advantage of the enhanced stability of this enzyme in liquid reagents. Rely on the proven diagnostic quality of this product.

Applications Use Cholesterol Esterase, chemically modified in diagnostic tests for the determination of cholesterol in combination with Cholesterol Oxidase.

Synonyms cholesterol esterase; cholesteryl ester synthase; triterpenol esterase; cholesteryl esterase; cholesteryl ester hydrolase; sterol ester hydrolase; cholesterol ester hydrolase; cholesterase; acylcholesterol lipase; sterol esterase; CE

Product Information

Source *Pseudomonas* species

Appearance Brownish lyophilizate

Molecular Weight ~129 kD

Activity >10 U/mg lyophilizate; >100 U/mg protein

Contaminants ATPase: <0.005 Catalase: <1.00 Glycerokinase: <0.001 Hexokinase: <0.005 "NADH oxidase": <0.001 Uricase: <0.005

Isoelectric point 4.5

pH Stability 6.0-6.5

Optimum pH 7.6

Thermal stability Below +20°C

Michaelis Constant Cholesterol oleate: 7×10^{-5} mol/l

Specificity Cholesterol esterase is an enzyme of lipid metabolism and gives complete cleavage of all serum cholesterol esters.

Activators Detergents

Inhibitors Heavy metals such as Cu²⁺, Ag⁺, Zn²⁺

Storage and Shipping Information

Stability At +2 to +8°C within specification range for 12 months. Store dry.