Creative Enzymes®

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 x 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.