Creative Enzymes®

Cholesterol Esterase from E. coli, Recombinant

Cat. No. DIA-405

Lot. No. (See product label)

Introduction

Description Sterol esterase belongs to the family of hydrolases, specifically those acting on carboxylic ester bonds. The systematic name of this enzyme class is steryl-ester acylhydrolase. This enzyme participates in bile acid biosynthesis.

Synonyms cholesterol esterase; cholesteryl ester synthase; triterpenol esterase; cholesteryl esterase; cholesteryl ester hydrolase; sterol ester hydrolase; cholesterol ester hydrolase; cholesterase; acylcholesterol lipase; EC 3.1.1.13; Sterol esterase

Product Information

Species	E. coli
Source	E. coli
Appearance	Light yellow lyophilizate
EC Number	EC 3.1.1.13
CAS No.	9026-00-0
Molecular Weight	ca. 54 kDa
Activity	> 5 U/mg lyophilizate
pH Stability	5.0-10.0
Optimum pH	5.5–7.0
Thermal stability	below 50°C
Optimum temperature	40°C
Michaelis Constant	1.9 x 10^-5 M (cholesterol linoleate)
Structure	monomer of 54 kDa (SDS-PAGE)
Specificity	cholesterol linoleate (100), cholesterol acetate (2), cholesterol oleate (98), cholesterol palmitate (74), cholesterol stearate (68), cholesterol arachidonate (46)
Stabilizers	Sucrose
Unit Definition	One unit (U) is defined as the amount of enzyme which produces 1 µmol of cholesterol per min at 37°C and pH 6.0.