

Native Microorganism Cholesterol Esterase

Cat. No. DIA-135

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.

Applications

This enzyme is useful for enzymatic determination of total cholesterol when coupled with cholesterol oxidase in clinical analysis.

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

Source

Microorganism

Appearance

Light brown amorphous powder, lyophilized

EC Number

EC 3.1.1.13

CAS No.

9026-00-0

Activity

Grade III 5.0U/mg-solid or more

Contaminants

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

pH Stability

pH 5.5-10.0 (25°C, 20hr)

Optimum pH

6

Thermal stability

below 40°C (pH 7.0, 15min)

Optimum temperature

40°C

Michaelis Constant

$5.7 \times 10^{-5}\text{M}$ (Linoleate), $7.2 \times 10^{-5}\text{M}$ (Oleate)

Inhibitors

Hg⁺⁺, Cu⁺⁺

Stabilizers

Mg⁺⁺, bovine serum albumin

Storage and Shipping Information

Stability

Store at -20°C