

## **Native Pseudomonas fluorescens Cholesterol Esterase**

Cat. No. NATE-0116

Lot. No. (See product label)

## Introduction

**Description** Cholesterol esterase (CE) is a reversible enzyme that can hydrolyze or synthesize fatty acid esters of

cholesterol and other sterols. Hydrolysis of water insoluble long chain fatty acid esters requires bile salt activation. Hydrolysis of water soluble esters of short chain fatty acids and lysophospholipids does not require activation by bile salts. It also hydrolyzes tri-, di-, and mono-acylglycerols, phospholipids, lysophospholipids, and ceramide. This monomeric glycoprotein may have multiple functions in lipid and

lipoprotein metabolism, as well as in atherosclerosis.

*Applications* Cholesterol esterase from Pseudomonas fluorescens has been used in an optimization study of

components in enzymatic cholesterol reagents containing cholesterol oxidase. Cholesterol esterase from Pseudomonas fluorescens has also been used in a study to investigate the nondenaturing protein electrotransfer of the esterase activity of lipolytic preparations. This enzyme is widely used in the

determination of serum cholesterol in diagnostic laboratories.

**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; 9026-00-0; sterol esterase; CE

## **Product Information**

**Source** Pseudomonas fluorescens

**Form** lyophilized powder.

**EC Number** EC 3.1.1.13

**CAS No.** 9026-00-0

**Activity** > 10,000 units/g protein

**Buffer** 0.4 M potassium phosphate, pH 7.0: soluble 1.0 mg/mL

Unit One unit will hydrolyze 1.0 μmole of cholesteryl oleate to cholesterol and oleic acid per min at pH 7.0 at

**Definition** 37°C in the presence of taurocholate.

## Storage and Shipping Information

*Storage* −20°C

**Tel:** 1-631-562-8517 1-516-512-3133 **Email:** info@creative-enzymes.com 1/1