Creative Enzymes®

# Cholesterol Linoleate

*Cat. No. CHL-0100*

*Lot. No.* (See product label)

## Introduction

| | |
|---|---|
| ***Description*** | Cholesteryl linoleate is a major cholesterol ester found associated with the neutral core of low density lipoprotein. Receptor-LDL complexes are taken up by lysosomes and hydrolyzed to release cholesterol from the esters. The enzyme acid cholesteryl ester hydrolase is responsible for the hydrolysis of cholesteryl esters; a defective enzyme can result in the formation of atherosclerotic lesions in humans. |
| ***Applications*** | Cholesteryl linoleate was cosonicated with cholesterol to prepare dispersions were prepared to study the cholesterol to phospholipid ratio in red blood cell membrane. It was used as HPLC standard in the analysis of rat liver lipoproteins. |
| ***Synonyms*** | 3β-Hydroxy-5-cholestene 3-linoleate; 5-Cholesten-3β-ol 3-linoleate; Cholesteryl 9,12-octadecadienoate; Cholesteryl octadecadienoate; Linoleic Acid Cholesterol Ester |

## Product Information

| | |
|---|---|
| ***CAS No.*** | 604-33-1 |
| ***Molecular Weight*** | 649.1 |
| ***Purity*** | >97.0% |
| ***Structure*** | C45H76O2 |

## Usage and Packaging

| | |
|---|---|
| ***Preparation Instructions*** | Cholesteryl linoleate yields clear, colorless solution in chloroform at 100 mg/ml. |

## Storage and Shipping Information

| | |
|---|---|
| ***Storage*** | at −20°C |