

Native Microorganism Lipoprotein lipase

Cat. No. DIA-211

Lot. No. (See product label)

Introduction

Description Lipoprotein lipase (LPL) (EC 3.1.1.34) is a member of the lipase gene family, which includes pancreatic

lipase, hepatic lipase, and endothelial lipase. It is a water soluble enzyme that hydrolyzes triglycerides in lipoproteins, such as those found in chylomicrons and very low-density lipoproteins (VLDL), into two free fatty acids and one monoacylglycerol molecule. It is also involved in promoting the cellular uptake

of chylomicron remnants, cholesterol-rich lipoproteins, and free fatty acids.

Applications This enzyme is useful for enzymatic determination of triglyceride in serum when coupled with $L-\alpha$ -

glycerophosphate oxidase and glycerol kinase. Usually, the reaction can be completed in 5 minutes at

 37° C by using $2.5\sim3.0$ units of the enzyme per test (3.0ml) at pH around 7.0.

Synonyms Lipoprotein lipase; LPL; EC 3.1.1.34; Clearing factor lipase; Diacylglycerol lipase; Diglyceride lipase

Product Information

Source Microorganism

Appearance Light brown amorphous powder, lyophilized

EC Number EC 3.1.1.34

CAS No. 9004-02-8

Activity Gradelll 1.0U/mg-solid or more

 $\textbf{\textit{Contaminants}} \quad \text{Phosphatase } 1.0 \times 10^{-3} \% \text{ Catalase } 2.0 \times 10^{-2} \% \text{ NADH oxidase } 1.0 \times 10^{-3} \% \text{ Cholesterol oxidase } 2.0 \times 10^{-3} \%$

pH Stability pH 5.5-10.0 (25°C, 20hr)

Optimum pH 8

Thermal

below 40°C (pH 7.0, 15min)

stability

Optimum temperature

40-45°C

temperature

Inhibitors

Hg++, Cu++

Stabilizers

Mg⁺⁺, bovine serum albumin

Storage and Shipping Information

Stability Store at -20°C

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1/1