



PRODOTTI PER LA RICERCA MEDICA



Name	Lipase A
Description	Lipase-A Recombinant
Shipped	At Room Temperature
Catalogue Number	PRO-ENZ-473

Introduction

Lipase (EC 3.1.1.3) is a ubiquitous enzyme that catalyzes the hydrolysis of fats and oil. The *Serratia marcescens* lipase is recognized for its excellent enantioselectivity in biocatalytic hydrolysis of trans-3-(4-methoxyphenyl) glycidic acid methyl ester [(±)-MPGM] to produce (2R, 3S)-3-(4-methoxyphenyl) glycidic acid methyl ester [(-)-MPGM].

Description

Recombinant Immobilized *Serratia marcescens* Lipase-A is expressed in E.Coli having a Mw of 65 kDa is purified by standard chromatography techniques.

Source

Escherichia Coli.

Physical Appearance

Sterile Filtered lyophilized powder.

Formulation

The protein was lyophilized without additives.

Solubility

It is recommended to reconstitute the lyophilized Lipase-A in sterile 10%-50% DMSO, isopropyl ether, petroleum ether, ethanol, acetone and isopropanol.

Stability

Recombinant Lipase-A although stable at room temp for 1 week, should be stored desiccated below -18C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

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Application Stability

pH5~10 Unstable at higher than 50°C. Higher activity can be reached in 10%-50% DMSO, isopropyl ether and petroleum ether, 10%-25% ethanol, acetone and isopropanol, 50% activity can be kept in 50% acetone and isopropanol, no activity detected in 50% ethanol.

Purity

Greater than 90% as determined by SDS-PAGE.

Unit Definition

Lipase-A was assayed using p-nitrophenyl acetate (pNPA) as a substrate. One unit of lipase activity was defined as the amount of enzyme releasing 1.0 μ mol of p-nitrophenol per minute.

Biological Activity

580 units/mg powder.

Usage

ProSpec's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

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