

Native *Schizophyllum commune* Cholesterol Esterase

Cat. No. DIA-133

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 Schizophyllum commune

Appearance Light brown amorphous powder, lyophilized

EC Number EC 3.1.1.13

CAS No. 9026-00-0

Molecular Weight approx. 130 kDa

Activity GradeIII 2.0 U/mg-solid or more (containing approx. 20% of stabilizers)

Isoelectric point 4.1±0.1

pH Stability pH 2.5-7.5 (25°C, 20hr)

Optimum pH 4.8-8.0 (Cholesterol linoleate), 5.0 (serum)

Thermal stability below 55°C (pH 5.5, 10min)

Optimum temperature 55-60°C

Michaelis Constant 3.9×10^{-5} M (Linoleate), 9.2×10^{-5} M (Palmitate), 6.3×10^{-5} M (Decylate), 8.8×10^{-5} M (Propionate)

Inhibitors Heavy metal ions (Hg⁺⁺, Ag⁺, Fe⁺⁺⁺)

Stabilizers Na-Cholate

Storage and Shipping Information

Stability Store at -20°C