

Native Lignin Peroxidase from Phanerochaete chrysosporium

Cat. No. NATE-1579

Lot. No. (See product label)

Introduction

Description

Lignin peroxidase is a fungal enzyme which has a key role in the ligninolytic cycle, the process by which the structural component of plant walls, lignin, is degraded.

Applications

Demethoxylation C α -C β cleavage benzylic alcohol oxidation degradation of lignins, polycyclic aromatic hydrocarbons and xenobiotic compounds

Synonyms

lignin peroxidase; diarylpropane oxygenase; ligninase I; diarylpropane peroxidase; diarylpropane:oxygen,hydrogen-peroxide oxidoreductase (C-C-bond-cleaving); LiP; 42613-30-9

Product Information

Source

Phanerochaete chrysosporium

Form

Freeze-dried powder, no stabilizing agent added

EC Number

EC 1.11.1.14

CAS No.

93792-13-3

Optimum pH

3.3

Thermal stability

15-60 °C

Specificity

Veratryl alcohol, phenolic and nonphenolic aromatic Compounds

Unit Definition

One unit is defined as the amount of enzyme that oxidizes 1.0 μ mole of 3,4-dimethoxybenzyl alcohol (veratryl alcohol) per minute at pH 3.3 and 25 °C.

Storage and Shipping Information

Storage

store at -20 °C

Stability

6 months