

Native White-rot fungus (Phaner ochaete chrysosporium) Manganese peroxidase

Cat. No. NATE-0454

Lot. No. (See product label)

Introduction

Description

Manganese peroxidase (MnP) is a hemecontaining glycoprotein that is produced by ligninolytic basidiomycetes. It requires hydrogen peroxide as an oxidant. MnP oxidizes Mn^{2+} to Mn^{3+} . Mn^{3+} oxidizes phenolic rings to phenoxy radicals which results in the decomposition of various compounds.

Applications

Manganese peroxidase from white-rot fungus (Phaner ochaete chrysosporium) is from the peroxidase family and is used to oxidize manganese. It may be used to study wound healing

Synonyms

manganese peroxidase; peroxidase-M2; Mn-dependent (NADH-oxidizing) peroxidase; EC 1.11.1.13; 114995-15-2; MnP

Product Information

Source

White-rot fungus (Phaner ochaete chrysosporium)

Form

powder; only partially soluble in water or buffer; light brown

EC Number

EC 1.11.1.13

CAS No.

114995-15-2

Activity

> 20 U/g

Unit Definition

One unit corresponds to the amount of enzyme, which oxidizes 1 μ mole Mn^{2+} per minute to Mn^{3+} at pH 4.5 and 25°C

Storage and Shipping Information

Storage

-20°C