

## **Native Caldariomyces fumago Chloroperoxidase**

Cat. No. NATE-0156

Lot. No. (See product label)

## Introduction

**Description** Chloroperoxidase (CPO) is a 42 kDa Da extracellular heme glycoenzyme containing

ferriprotoporphyrin IX as the prosthetic group. CPO is secreted from fungus and exhibits a broad spectrum of chemical reactivities. It is a peroxide-dependent chlorinating enzyme. It also catalyzes peroxidase-, catalase-and cytochrome P450-type reactions of dehydrogenation, H2O2 decomposition and oxygen insertion, respectively. The enzyme has magnetic and spectroscopic properties similar to that of cyctochrome P-450. CPO from the fungus Caldariomyces fumago has the

hydrocarbons (PAHs).

**Applications** A useful alternative to lactoperoxidase for 131I ion labeling studies, for bromination

of proteins, and for Cl labeling of macromolecules in long-term isolation

capacity to chlorinate aromatic hydrocarbons, including polycyclic aromatic

procedures.

**Synonyms** Chloroperoxidase; CPO; Vanadium haloperoxidase; EC 1.11.1.10; 9055-20-3;

Chloride Peroxidase; Chloride:hydrogen-peroxide oxidoreductase

## **Product Information**

**Source** Caldariomyces fumago

Form buffered aqueous suspension. Purified suspension in 0.1 M sodium phosphate

solution, pH approx. 4.5

**EC Number** EC 1.11.1.10

*CAS No.* 9055-20-3

**Activity** 1,000-2,000 units/mg protein (E1%/280); > 3,000 units/mL; >10,000 U/mL

**Unit Definition** One unit will catalyze the conversion of 1.0 μmole of monochlorodimedon to

dichlorodimedon per min at pH 2.75 at 25°C in the presence of potassium chloride

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and H2O2.

## Storage and Shipping Information

**Storage** 2-8°C

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