

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 capacity to chlorinate aromatic hydrocarbons,

including polycyclic aromatic 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 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 One unit will catalyze the conversion of 1.0 μmole of monochlorodimedon to dichlorodimedon per min at

Definition pH 2.75 at 25°C in the presence of potassium chloride and H2O2.

Storage and Shipping Information

Storage 2-8°C

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1/1