

unspecific peroxygenase

Cat. No. EXWM-0512

Lot. No. (See product label)

Introduction

Description A heme-thiolate protein (P-450). Enzymes of this type include glycoproteins secreted by agaric

basidiomycetes. They catalyse the insertion of an oxygen atom from H2O2 into a wide variety of substrates, including aromatic rings such as naphthalene, toluene, phenanthrene, pyrene and p-nitrophenol, recalcitrant heterocycles such as pyridine, dibenzofuran, various ethers (resulting in O-dealkylation) and alkanes such as propane, hexane and cyclohexane. Reactions catalysed include hydroxylation, epoxidation, N-oxidation, sulfooxidation, O- and N-dealkylation, bromination and one-electron oxidations. They have little or no activity toward chloride. Mechanistically, the catalytic cycle of unspecific (mono)-peroxygenases combines elements of the "shunt" pathway of cytochrome P-450s (a side activity that utilizes a peroxide in place of dioxygen and NAD[P]H) and the classic heme peroxidase

cycle.

Synonyms aromatic peroxygenase; mushroom peroxygenase; haloperoxidase-peroxygenase; Agrocybe aegerita

oeroxidase

Product Information

Form Liquid or lyophilized powder

EC Number EC 1.11.2.1

Reaction RH + H2O2 = ROH + H2O

Notes This item requires custom production and lead time is between 5-9 weeks. We can custom produce

according to your specifications.

Storage and Shipping Information

Store it at +4 °C for short term. For long term storage, store it at -20 °C~-80 °C.

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