

## versatile peroxidase

Cat. No. EXWM-0497

Lot. No. (See product label)

### Introduction

**Description** A hemoprotein. This ligninolytic peroxidase combines the substrate-specificity characteristics of the two other ligninolytic peroxidases, EC 1.11.1.13, manganese peroxidase and EC 1.11.1.14, lignin peroxidase. Unlike these two enzymes, it is also able to oxidize phenols, hydroquinones and both low- and high-redox-potential dyes, due to a hybrid molecular architecture that involves multiple binding sites for substrates.

**Synonyms** VP; hybrid peroxidase; polyvalent peroxidase; reactive-black-5:hydrogen-peroxide oxidoreductase

### Product Information

**Form** Liquid or lyophilized powder

**EC Number** EC 1.11.1.16

**CAS No.** 42613-30-9, 114995-15-2

**Reaction** (1) 1-(4-hydroxy-3-methoxyphenyl)-2-(2-methoxyphenoxy)propane-1,3-diol + H<sub>2</sub>O<sub>2</sub> = 4-hydroxy-3-methoxybenzaldehyde + 2-methoxyphenol + glycolaldehyde + H<sub>2</sub>O; (2) 2 manganese(II) + 2 H<sup>+</sup> + H<sub>2</sub>O<sub>2</sub> = 2 manganese(III) + 2 H<sub>2</sub>O

**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

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