

## 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. 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	<ul> <li>(1) 1-(4-hydroxy-3-methoxyphenyl)-2-(2-methoxyphenoxy)propane-1,3-diol + H2O2</li> <li>= 4-hydroxy-3-methoxybenzaldehyde + 2-methoxyphenol + glycolaldehyde +</li> <li>H2O; (2) 2 manganese(II) + 2 H+ + H2O2 = 2 manganese(III) + 2 H2O</li> </ul>
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.