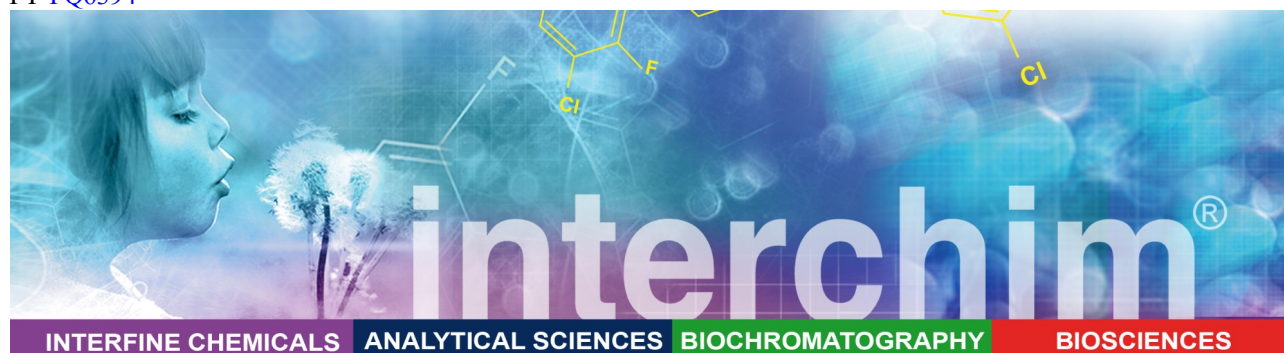


FT-FQ6394



Manganese peroxidase

Used to oxidize manganese. It may be used to study wound healing.

Product Description

Catalog #: FQ6394, 10mg



Manganese Peroxidase

Name: **Manganese peroxidase**

Manganese-dependent lignin peroxidase; MnP;
Peroxidase, manganese

CAS: [114995-15-2]

Activity: > 10U/g

Storage: Powder -20°C

Technical and Scientific Information

Manganese peroxidase is from white-rot fungus (*Phanerochaete chrysosporium*). It is used to oxidize manganese and catalyzes the oxidation of Mn^{2+} to Mn^{3+} . Mn^{3+} is then in complex with oxalate, which is able to oxidize lignin. Manganese peroxidase from *Phanerochaete chrysosporium* binds 2 calcium ions per subunit. It binds 1 heme B (iron-protoporphyrin IX) group per subunit. One unit of Manganese peroxidase corresponds to the amount of enzyme, which oxidizes 1 $\mu\text{mole Mn}^{2+}$ per minute to Mn^{3+} at pH 4.5 and 25°C.

References

[1]. Santacruz-Juárez E. et al., Fungal enzymes for the degradation of polyethylene: Molecular docking simulation and biodegradation pathway proposal, *Journal of Hazardous Materials*, Volume 411, 5 June 2021, 125118

Ordering information

Catalog size quantities and prices may be found at <http://www.interchim.com>.

Please inquire for higher quantities (availability, shipment conditions).

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