

Manganese peroxidase

Cat. No.:	HY-132188
CAS No.:	114995-15-2
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

Manganese peroxidase

BIOLOGICAL ACTIVITY

Description

Manganese peroxidase is a heme protein that oxidizes Mn²⁺ to Mn³⁺. Manganese peroxidase catalyzes plant lignin depolymerization. Manganese peroxidase can be used for the biodegradation of hazardous environmental contaminants, and especially for dye wastewater decolorization^{[1][2]}.

REFERENCES

[1]. Chang Y, et al. Textile Dye Biodecolorization by Manganese Peroxidase: A Review. *Molecules*. 2021 Jul 21;26(15):4403.

[2]. Xu H, et al. Expression and characteristics of manganese peroxidase from *Ganoderma lucidum* in *Pichia pastoris* and its application in the degradation of four dyes and phenol. *BMC Biotechnol*. 2017 Feb 23;17(1):19.

Caution: Product has not been fully validated for medical applications. For research use only.

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