Peroxidase, Horseradish

Cat. No.:	HY-125859
CAS No.:	9003-99-0
Target:	Reactive Oxygen Species
Pathway:	Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

Peroxidase, Horseradish

SOLVENT & SOLUBILITY

In Vitro	H_2O : 33.33 mg/mL (ultrasonic and warming and heat to 60°C)
In Vivo	1. Add each solvent one by one: 0.1M Phosphate Buffer Solubility: 2 mg/mL (Infinity mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description	Peroxidase, Horseradish actively involves in oxidizing reactive oxygen species, innate immunity, hormone biosynthesis and pathogenesis of several diseases[1].
In Vitro	Peroxidases belong to a large family of isoenzymes present in almost all living organisms. These are generally heme containing enzymes ranging in Mw from 35-100 Kd. Mammalian peroxidases are much larger proteins (576-738 amino acids) than the plant counterparts. Peroxidases exist as monomers, dimmers or tetramers and their gene locations also vary among different chromosomes. Peroxidases have some organ, tissue, cellular and sub-cellular specific distribution patterns, performing some specific functions[1].Product Information Optimal pH: 6.0 - 7.0 Theoretical molecular weight: 44 kDa Instructions Dissolved in pure water (1 mg/mL). It is recommended to use freshly prepared products. Or it can be dissolved according to the buffer in the specific experimental reference (such as 0.1 M phosphate buffer, pH 6.0). MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Redox Biol. 2023 Sep;65:102837.

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REFERENCES

[1]. Khan AA, et al. Biochemical and pathological studies on peroxidases -an updated review. Glob J Health Sci. 2014 May 13;6(5):87-98.

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

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