



Native Horseradish Peroxidase

Product Information

Cat#	PHAM-231
Abbr	HRP (Horseradish)
Alias	HRP
Similar	Peroxidase
Source	Horseradish
Description	<p>The enzyme horseradish peroxidase (HRP), found in horseradish, is used extensively in molecular biology applications primarily for its ability to amplify a weak signal and increase detectability of a target molecule. HRP is often used in conjugates (molecules that have been joined genetically or chemically) to determine the presence of a molecular target. For example, an antibody conjugated to HRP may be used to detect a small amount of a specific protein in a western blot. Here, the antibody provides the specificity to locate the protein of interest and the HRP enzyme, in the presence of a substrate, produces a detectable signal. Horseradish peroxidase is also commonly used in techniques such as ELISA and Immunohistochemistry.</p>
Applications	<p>Horseradish peroxidase (HRP) is isolated from horseradish roots (<i>Amoracia rusticana</i>). It is used in biochemistry applications such as western blots, ELISA and Immunohistochemistry. Horseradish peroxidase is used to amplify a weak signal and increase detectability of a target molecule, such as a protein. Horseradish peroxidase, product P8250, has been used to study nonoral antigens in inflamed gingiva¹ and Ebola virus glycoprotein toxicity.</p>
Form	Freeze dried powder
Enzyme Commission Number	EC 1.11.1.7
Activity	> 150 units/mg
CAS No.	9003-99-0



Creative Enzymes

Diagnostic Enzymes

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Unit Definition	One pyrogallol unit will form 1.0 mg purpurogallin from pyrogallol in 20 sec at pH 6.0 at 20 °C.
Storage	2-8°C
Synonyms	EC 1.11.1.7; HRP; peroxidase; Horseradish Peroxidase; lactoperoxidase; guaiacol peroxidase; plant peroxidase; Japanese radish peroxidase; horseradish peroxidase (HRP); soybean peroxidase (SBP); extensin peroxidase; heme peroxidase; oxyperoxidase; protoheme peroxidase; pyrocatechol peroxidase; scopoletin peroxidase; Coprinus cinereus peroxidase; Arthromyces ramosus peroxidase