

## HRP

**Description:** HRP consists of the basic isoenzyme having a molecular weight of 44 kDa. The Horseradish Peroxidase is purified by affinity chromatography, which results in an enzyme of high specific activity and purity.

**Catalog #:** ENPS-328

For research use only.

**Synonyms:** Horseradish Peroxidase, HRP, EC 1.11.1.7.

**Source:** Root extracts of horseradish.

**Physical Appearance:** Sterile Filtered red-brown lyophilized powder.

**Purity:** (A403/A278) = RZ: 3.4.

**Stability:**

Lyophilized HRP although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution HRP should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Solubility:**

It is recommended to reconstitute the lyophilized HRP in sterile 18M-cm H<sub>2</sub>O not less than 100 µg/ml or more than 10 mg/ml solutions.

**Introduction:**

The enzyme horseradish peroxidase, found in horseradish, is used extensively in molecular biology and in antibody amplification and detection, among other things. For example, "In recent years the technique of marking neurons with the enzyme horseradish peroxidase (HRP) has become a major tool. In its brief history, this method has probably been used by more neurobiologists than have used the Golgi stains since its discovery in 1870." Horseradish peroxidase is also highly used in techniques such as Western blotting and ELISAs. HRP is widely used as an enzymatic label in immunoassays. Usually, the enzyme is coupled to antibodies, lectins or haptens. Coupling to antibodies etc. may be performed through the carbohydrate side chains of the HRP.

**Biological Activity:**

Greater than 250 U/mg (25°C, guaiacol as the hydrogen donor, pH-7 and H<sub>2</sub>O<sub>2</sub> as substrates).

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