

Biotinylated Horseradish Peroxidase

CATALOG NO: P1473-5 5 mg

ALTERNATE NAMES: Biotin-HRP, Biotin Peroxidase

FORM: Lyophilized

FORMULATION: Lyophilized in Phosphate Buffered Saline, pH 7.4

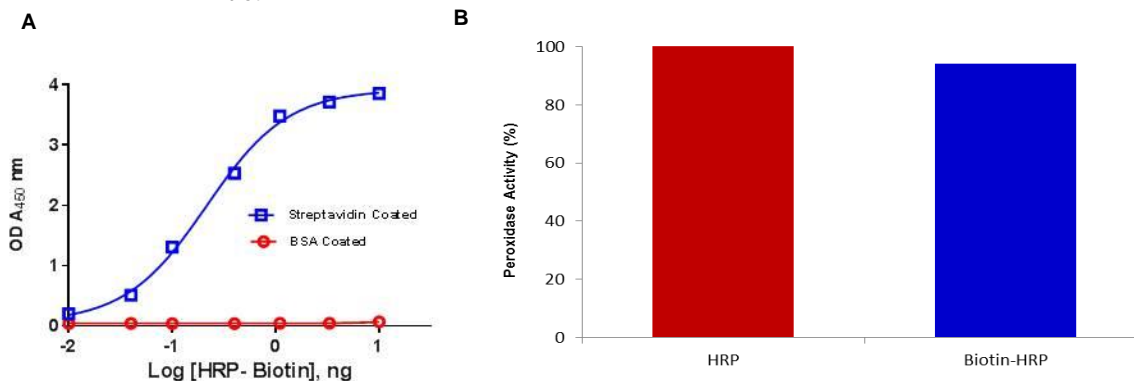
RECONSTITUTION: Reconstitute in distilled water at the concentration of 1.0 mg/ml (or any buffer of choice)

SPECIFIC ACTIVITY: Biotinylated-HRP retains 95% of peroxidase activity as determined by using BioVision Peroxidase Activity Colorimetric/Fluorometric Assay Kit (Cat. No. K772)

STORAGE CONDITIONS: Store at 4°C until opened. This product should be stored undiluted and it is stable for at least 6 months as supplied. For long term storage, store undiluted product in small aliquots at -20°C. Avoid repeated freezing and thawing.

DESCRIPTION: Biotin is a small biomolecule and an essential cofactor for metabolic enzymes that is required by all organisms for life. Biotin is a relatively small, water soluble molecule that does not interfere with the macromolecules it is added to. Most importantly for biotechnology applications, biotin is amenable to conjugation to proteins for use in biochemical assays. Biotin binds to avidin and streptavidin with an extremely high affinity; an attraction that is one of the strongest and most stable non-covalent interaction found in nature. Horseradish Peroxidase (HRP) is an enzyme which is defined as oxidoreductase that utilizes organic peroxide compounds using hydroperoxide as electron acceptor. Horseradish Peroxidase is brightly colored especially under the near-ultraviolet light. This property makes it useful for attaching to "transparent" proteins so that they can be seen under different wavelengths. Horseradish peroxidase is highly active and stable enzyme commonly used as a detection reagent in immunoassays such as western blot, IHC and ELISA.

BioVision's Biotinylated Horseradish Peroxidase contains 1-2 biotins per HRP as estimated by HABA assay using BioVision's Biotin Quantitation Kit (Colorimetric) (Cat. No. K811) and it is free of any unconjugated biotin.



(A) Binding Efficiency of Biotinylated HRP: Different dilutions of Biotinylated-HRP binds to Streptavidin Coated 96 well microplate (Cat. No. 6523). BSA was used as a control.

(B) Specific Activity of Biotinylated HRP: Biotinylated-HRP retains 95% of peroxidase activity as determined by using BioVision Peroxidase Activity Colorimetric/Fluorometric Assay Kit (Cat. No. K772)

RELATED PRODUCTS:

- Biotinylated Procalcitonin Antibody (A1779)
- Streptavidin Coated 96-well Plate (6523)
- Biotin Quantitation Kit (Colorimetric) (K811)
- Core Streptavidin (7936)
- Peroxidase Activity Colorimetric/Fluorometric Assay Kit (K772)

FOR RESEARCH USE ONLY! Not to be used on humans.