Red hydrogen peroxide assay kit

Red Hydrogen Peroxide Assay Kit provides a simple absorbance-based or fluorometric assay to detect and quantify hydrogen peroxide or peroxidase activity in biochemical assays, cell extracts and in live cells. It can also be used to detect a variety of oxidase activities through enzyme-coupled reactions. The kit is an optimized 'mix and read' assay that is suitable for both 96- and 348-well formats and is compatible with HTS liquid handling.

Citations: 8

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Ordering Information

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ENZ-51004

1Kit

Manuals, SDS & CofA

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- Flexible: Quantify hydrogen peroxide in solution, in cell extracts or directly from certain cells
- Versatile: Detect a variety of oxidase activities through enzyme-coupled reactions
- Sensitive: Detect as little as 10 picomoles of hydrogen peroxide
- Complete: Mix and read reagents, with minimal hands-on time
- Convenient: Homogenous assay format, fully compatible with HTS automation

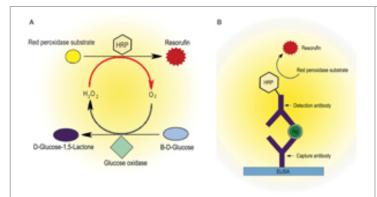


Figure 1: Conversion of Red Peroxidase Substrate into Resorufin. Horseradish peroxidase uses Red Peroxidase substrate as an electron donor during the reduction of hydrogen peroxide to water. The resultant product, Resorufin, is a highly colored and fluorescent compound. (A) Use of assay for detection of glucose oxidase activity. (B) Use of assay in ELISA format to detect HRP-antibody conjugate.

Handling & Storage

Use/Stability Stable for at least one year after receipt when stored as recommended.

Long Term Storage -20°C

Shipping Dry Ice

Regulatory Status RUO - Research Use Only

Product Details

Application Fluorescence microscopy, HTS

Contents Red Peroxidase Substrate (1 vial)

Horseradish Peroxidase (HRP) (20 units)

Hydrogen Peroxide (H₂O₂) Stock Solution (200 μl)

DMSO (1 ml)

Assay Buffer (100 ml)

Quality Control A sample kit from each lot of Red Hydrogen Peroxide

Assay Kit is used to detect $\rm H_2O_2$ using the protocols described in the user manual. **Minimum Specifications:**

1. A minimum of 10 picomoles of $\rm H_2O_2$ must be detected in solution under normal conditions. 2. Fluorescence-based detection must yield $\rm H_2O_2$ specific excitation and emission signals at 570 nm and 585 nm, respectively. 3. Absorbance-based detection must yield an $\rm H_2O_2$ specific

signal at OD₅₇₆.

Quantity For 5 x 96-well plates.

This product is a member of the CELLESTIAL[®] product line, reagents and assay kits comprising fluorescent molecular probes that have been extensively benchmarked for live cell analysis applications. CELLESTIAL[®] reagents and kits are optimal for use in demanding imaging applications, such as confocal microscopy, flow cytometry and HCS, where consistency

and reproducibility are required.



Technical Info / Product Notes

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