CREATIVE BIOMART®
Assay Kit

Hydrogen Peroxide/Peroxidase Fluorometric Detection Kit

Product Information

Cat.No. Kit-0406

Product Overview

The Fluoro H2O2 detection kit utilizes a non-fluorescent detection reagent to measure H2O2. H2O2 oxidizes the detection reagent to produce a fluorescent product, resorufin which is catalyzed by peroxidase in a homogeneous no wash assay system. The detection reagent can be utilized to measure H2O2 release from cells or enzyme coupled reactions.

Applications

Fluorescence plate reader

Usage

1. For Research use only. Not for use in diagnostic procedures.2. Practice safe laboratory procedures by wearing protective clothing and eyewear.3. The fluorescent product of the detection reagent is no stable in the presence of thiols (DTT or 2-mercaptoethanol). Keep these reactants below 10mM. If you are using your own buffer, keep the reaction between pH 7-8 (optimal pH 7.4).4. NADH and glutathione (reduced form: GSH) may interfere with the assay.See Technical note 5.

Storage

1. Short term (several weeks): at 2-4oC and away from light. 2. Long term: see individual components.3. Once a vial of the Detection reagent is opened, it should be used promptly since it is subject to oxidation by air.

Kit Components

Reagent-Storage Temperature1. 5X Reaction Buffer: 20 ml buffer, pH 7.4, 2-8°C;2. Detection reagent: One vial for 500 assays, 2-8°C;3. Hydrogen Peroxide: 200µL of a stabilized 3% solution, 2-8°C;4. Horseradish Peroxidase: 18.9 Units of enzyme, 2-8°C

Features & Benefits

1. Quick 10 minute assay.2. Can monitor multiple time points to follow kinetics.3. Dual mode, can

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detect H202 or peroxidase activity.4. One-step, no wash assay.5. Adaptable for High Throughput format.6. Non-destructive cell based assay allows monitoring of additional parameters.7. Applications-Fluorescent Plate Reader.

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