CREATIVE BIOMART®
Assay Kit

Hydrogen Peroxide Colorimetric/Fluorometric Assay Kit

Product Information

Cat

Kit-1094

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Description

Hydrogen Peroxide is a reactive oxygen metabolic byproduct that serves as a key regulator for a number of oxidative stress-related states. Functioning through NF-κB and other factors, hydroperoxide-mediated pathways have been linked to asthma, inflammatory arthritis, atherosclerosis, diabetic vasculopathy, osteoporosis, neuro-degenerative diseases, Down's syndrome and immune system diseases. Hydrogen Peroxide Assay Kit is a highly sensitive, simple, direct and HTS-ready colorimetric and fluorometric assay for measuring H2O2 in biological samples. In the presence of Horse Radish Peroxidase (HRP), the OxiRed Probe reacts with H2O2 to produce product with color (λmax = 570 nm) and red-fluorescent (Ex/Em=535/587 nm). The kit can perform 200 reactions by fluorometric method or 100 reactions by colorimetric method. The detection limit can be as low as 2 pmol per assay (or 40 nM concentration) of H2O2 in the sensitive fluorometric assay.

Applications

The kit provides a highly sensitive, simple, direct and HTS-ready colorimetric assay for measuring H2O2 in biological samples.

Storage

-20°C

Shipping

Gel Pack

Size

200 assays

Kit Components

Tel: 1-631-559-9269 1-516-512-3133
Email:info@creative-biomart.org
Fax:1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

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H2O2 Assay Buffer; OxiRed; Probe; Dimethylsulfoxide (DMSO, anhydrous); HRP; H2O2 Standard (0.88M)

Target Species

Mammalian

Detection method Absorbance (570 nm)and fluorescence(Ex/Em 535/587 nm)

Features & Benefits

Simple procedure; takes less than ~1 hours;
Fast and convenient;
The kit can perform 200 reactions by fluorometric method or 100 reactions by colorimetric method.
The detection limit can be as low as 2 pmol per assay (or 40 nM concentration) of H2O2 in the sensitive fluorometric assay.

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