CREATIVE BIOMART®
Assay Kit

Xanthine Oxidase Assay Kit

Product Information

Cat

Kit-2454

Cat.No. Kit-2454

Product Overview

Xanthine Oxidase catalyzes the oxidation of xanthine to uric acid. In addition, xanthine oxidase can catalyze the oxidation of hypoxanthine to xanthine, act on certain purines and aldehydes, and in certain cases produce the superoxide ion. Clinically, xanthine oxidase activity in blood can act as a marker for influenza, liver damage, and possibly cardiovascular health. Simple, direct and high-throughput assays for measuring xanthine oxidase activity find wide applications in research and drug discovery. xanthine oxidase assay kit uses a single Working Reagent that combines the xanthine oxidase reaction and color reaction in one step. The change in color intensity of the reaction product at 570 nm or fluorescence intensity at λex/em = 530/585 nm is directly proportional to xanthine oxidase activity in the sample.

Storage

-20°C

Shipping

On Ice

Size

100 tests

Detection method OD570nm, FL530/585nm

Compatible Sample Types

Cell lysate, serum, and other biological samples.

Features & Benefits

Sensitive and accurate. Use as little as 10 µL samples. Linear detection range in 96-well plate for 20 minute incubation: 0.03 to 25 U/L xanthine oxidase for colorimetric assays and 0.01 to 2.5 U/L for

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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fluorimetric assays.
Simple and high-throughput. The procedure involves addition of a single working reagent and incubation for 20 min at room temperature.

Assay time
20 min
Sensitivity
FL 0.01 U/L; OD 0.03 U/L

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