CREATIVE BIOMART®
Assay Kit

Xanthine Oxidase Activity Colorimetric/Fluorometric Assay Kit

Product Information

Cat

Kit-0845

Common Name

XO

Cat.No. Kit-0845

Product Overview

Simple procedure; takes ~ less than 40 minutes
Fast and convenient
Sensitive assays for measuring Xanthine Oxidase activity in various biological samples

Description

Xanthine oxidase (XO, EC 1.17.3.2) is present in appreciable amounts in the liver and jejunum in healthy individuals. However, in various liver disorders, XO is released into circulation. Therefore, determination of serum XO level serves as a sensitive indicator of acute liver damage such as jaundice. We have developed an easy and sensitive assay to determine XO in variety of samples. In the assay, XO oxidizes xanthine to hydrogen peroxide (H□O□) which reacts stoichiometrically with OxiRed Probe to generate color (at λ = 570 nm) and fluorescence (at Ex/Em = 535/587 nm). Since the color or fluorescence intensity is proportional to XO content, the XO activity can be accurately measured. The kit detects 1-100 mU xanthine oxidase in 100 µl reaction volume.

Applications

The kit detects 1-100 mU xanthine oxidase in 100 µl reaction volume.

Usage

For Research Use Only! Not For Use in Humans

Storage

-20°C

Size

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

CREATIVE BIOMART®
Assay Kit

Xanthine Oxidase Activity Colorimetric/Fluorometric Assay Kit

100 assays

Kit Components

- XO Assay Buffer
- OxiRed Probe (in DMSO)
- XO Enzyme Mix
- XO Substrate Mix
- XO Positive Control
- H□O□ Standard (0.88 M)

Target Species

Mammalian

Detection method Absorbance (570 nm) or Fluorescence (Ex/Em 535/587 nm)

Compatible Sample Types

Cell and Tissue culture supernatants, urine, plasma and serum, as well as many other biological fluids, growth medium, food etc.

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