CREATIVE BIOMART®
Assay Kit

Oxalate Oxidase Activity Assay Kit (Fluorometric)

Product Information

Cat

Kit-1078

Cat.No. Kit-1078

Description

Oxalate Oxidase (OxOx EC 1.2.3.4) belongs to the cupin protein superfamily and catalyzes the conversion of Oxalate into H2O2 and CO2. It plays an important role for stress response in plants. For example, wood rotting fungi generates high levels of oxalate, causing plant rot in many crops including lettuce, soybean, dry bean, tomato, etc. Overexpression of OxOx in plants (e.g. tomato, soybean, lettuce and tobacco) is able to generate transgenic plants showing resistance to fungal pathogenesis. Accurate measurement of Oxalate Oxidase activity is valuable for mechanistic studies in plants and development of transgenic plants. Oxalate Oxidase Activity Assay kit provides a quick and easy method for the measurement of Oxalate Oxidase activity in various samples. In this assay, Oxalate Oxidase converts oxalate into hydrogen peroxide, which in turn, reacts with a probe and converter generating a fluorometric signal (535/587 nm). The generated fluorescence is directly proportional to the amount of active Oxalate Oxidase present in samples. The assay is simple, sensitive, high –throughput adaptable and can detect less than 4 μU of oxalate Oxidase activity per sample.

Applications

Measurement of Total Oxalate Oxidase activity in various biological samples.

Storage

-20°C

Shipping

Gel Pack

Size

100 assays

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

Oxalate Oxidase Activity Assay Kit (Fluorometric)

Kit Components

OxOX Assay Buffer; OxOx Substrate; OxOx Converter; OxiRedTM Probe (in DMSO); OxOX Positive Control; H2O2 Standard (0.88 M)

Target Species

Plant

Detection method Fluorescence (Ex/Em = 535/587 nm)

Features & Benefits

Rapid & Convenient;
The assay can detect as little as 4 μU of OxOx enzymatic activity.
Includes Active OxOx Enzyme as Positive Control

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