CREATIVE BIOMART®
Assay Kit

Diamine Oxidase Assay Kit

Product Information

Cat.No. Kit-2071

Product Overview

The non-radioactive, fluorimetric DAO assay is based on the oxidation of putrescine to pyrroline plus NH3 and H2O2. The generated H2O2 is then used by HRP to oxidize a dye making it fluorescent. The increase in fluorescence at λex/em = 530/585 nm is directly proportional to the enzyme activity.

Size

100 tests

Description

DIAMINE OXIDASE (DAO) also known as histaminase or amine oxidase (copper containing), is an enzyme involved in the metabolism, oxidation, and inactivation of histamine in animals. Highest content is observed in the digestive tract and placenta. An imbalance between histamine intake and the capacity for histamine degradation can lead to histamine intolerance (HIT). Measuring DAO activity in serum can be useful in diagnosing HIT.

Applications

For quantitative determination of diamine oxidase in biological samples (e.g. serum, plasma etc)

Storage

The kit is shipped at ambient temperature. Store all components at -20°C upon receiving. Shelf life: 6 months after receipt.

Kit Components

Assay Buffer: 10 mL HRP Enzyme: 120 µLSubstrate: 120 µL H2O2 Standard: 100 µLDye Reagent: 120 µL

Detection method FL530/585nm

Compatible Sample Types

Serum, Plasma

Features & Benefits

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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• Fast and sensitive. Use of 10 μL sample. Linear detection range 0.5 to 6 U/L for 30 min reaction at 25°C. • Convenient. The procedure involves adding a single working reagent, and reading the fluorescence at 0 and 30 minutes. Room temperature assay. No 37°C heater is needed.• High-throughput. "Add-mix-read" type assay. Can be readily automated as a high-throughput 96-well plate assay for thousands of samples per day.

Assay time
30 min
Sensitivity
Detection Limit: 0.5 U/L

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