



## Monoamine Oxidase A (MAO-A) Inhibitor Screening Kit (Fluorometric)

### Product Information

#### Cat

Kit-2361

#### Cat.No.

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### Product Overview

Monoamine oxidases (MAO, EC 1.4.3.4) are a family of enzymes that can oxidize a wide variety of endogenous primary amines. Two isoforms, MAO-A and MAO-B, have been identified based on their substrate, inhibitor specificity, and tissue localization. MAO-A can oxidize primary amines such as serotonin and norepinephrine. MAO-A is a mitochondrial-bound enzyme that is ubiquitously expressed throughout the brain and other tissues. It has been implicated in panic, anxiety, and depression. Several MAO-A specific inhibitors such as clorgyline, brofaromine, toloxatone, tetrindole, etc. have been used as antidepressants, but their usage has been limited due to side effects. MAO-A Inhibitor Screening Kit offers a rapid, simple, sensitive, and reliable test suitable for high-throughput screening of MAO-A inhibitors. The assay is based on the fluorometric detection of H<sub>2</sub>O<sub>2</sub>, one of the byproducts generated during the oxidative deamination of MAO substrate.

### Applications

Screening/studying/characterizing MAO-A inhibitors

### Storage

-20°C

### Shipping

Gel Pack

### Size

100 assays

### Kit Components

MAO-A Assay Buffer; OxiRed; Probe (in DMSO); MAO-A Enzyme (Lyophilized); MAO-A Substrate



CREATIVE BIOMART<sup>®</sup>  
Assay Kit

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(Lyophilized); Developer (Lyophilized); Inhibitor Control (Clorgyline) (Lyophilized)

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

### Features & Benefits

Rapid & sensitive;

High-throughput assay to screen/study/characterize potential inhibitors of monoamine oxidase A;

Includes Inhibitor Control [Clorgyline]

Tel: 1-631-559-9269 1-516-512-3133

Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)

Fax: 1-631-938-8127

45-1 Ramsey Road, Shirley, NY 11967, USA