CREATIVE BIOMART®
Assay Kit

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

Product Information

Cat

Kit-2361

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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 H2O2, 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 (Lyophilized); Developer (Lyophilized); Inhibitor Control (Clorgyline) (Lyophilized)

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

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]

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