CREATIVE BIOMART®
Assay Kit

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

Product Information

Cat

Kit-2362

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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-B can oxidize primary amines, but its list of specific substrates (i.e. benzylamine, phenylethylamine) is more limited compared to MAO-A. MAO-B is a mitochondrial-bound enzyme that is ubiquitously expressed throughout the brain and other tissues. It has been investigated in numerous studies including Parkinson's disease, Alzheimer's, and tobacco addiction. Specific MAO-B inhibitors such as selegiline, & rasagiline have been used to treat Parkinson's patients, but their benefits are considered rather modest. MAO-B Inhibitor Screening Kit offers a rapid, simple, sensitive, and reliable test suitable for high-throughput screening of MAO-B 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-B inhibitors

Storage

-20°C

Shipping

Gel Pack

Size

100 assays

Kit Components

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

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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 B; Includes Inhibitor Control [Selegiline]

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