CREATIVE BIOMART®
Assay Kit

Monoamine Oxidase A/B Fluorometric Detection Kit

Product Information

Cat.No. Kit-0538

Product Overview

The Fluoro MAO-A/B detection kit utilizes a non-fluorescent detection reagent to measure H2O2 released from the conversion of a substrate to its aldehyde via MAO-A/B. Furthermore H2O2 oxidizes the detection reagent in a 1:1 stoichiometry to produce a fluores-cent product resorufin. This oxidation is catalyzed by Peroxidase. The fluorescent monoamine oxidase detection kit can be used to monitor MAO activity and the screening of MAO inhibitors.

Applications

Fluorescence plate reader

Usage

1. For Research use only. Not for use in diagnostic procedures.2. Practice safe laboratory procedures by wearing protective clothing and eyewear.3. The fluorescent product of the detection reagent is no stable in the presence of thiols (DTT or 2-mercaptoethanol). Keep these reactants below 10mM. If you are using your own buffer, keep the reaction between pH 7-8 (optimal pH 7.4).4. NADH and glutathione (reduced form: GSH) may interfere with the assay.See Technical note 3.

Storage

1. The kit contains multiple storage temperature components. Please see labels of individual components for storage instructions.2. Once a vial of the Detection reagent is opened, it should be used promptly and frozen since it is subject to oxidation by air.

Kit Components

Reagent-Storage Temperature1. 5X Reaction Buffer: 1 Bottle 2-8°C;2. Horseradish Peroxidase: 1 Vial 2-8°C;3. MAO-B Substrate, Benzylamine: 1 Vial 2-8°C (Aliquot in Single Use Vials);4. MAO-A/B Substrate, Tyramine: 1 Vial 2-8°C (Aliquot in Single Use Vials);5. Clorgyline: Monoamine Oxidase A Inhibitor: 1 Vial 2-8°C (Aliquot in Single Use Vials);6. Pargyline: Monoamine Oxidase B Inhibitor: 1 Vial -20°C (Aliquot in Single Use Vials);7. Detection Reagent: 1 Vial -20°C (Aliquot in Single Use Vials)

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Features & Benefits

1. Non Radioactive.2. Can monitor multiple time points to follow kinetics.3. One-step, no wash assay.4. Adaptable for High Throughput format.5. Sensitive.6. Applications-Fluorescent Plate Reader.

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