CREATIVE BIOMART®
Assay Kit

Monoamine Oxidase Assay Kit

Product Information

Cat.No. Kit-0539

Product Overview

Monoamine Oxidase Assay Kit is a quantitative determination of monoamine oxidase activity.

Description

MONOAMINE OXIDASES (MAO, EC 1.4.3.4) are a family of mitochondrial enzymes that catalyze the oxidative deamination of monoamines. MAO dysfunction is thought to be responsible for a number of neurological disorders. Unusually high or low levels of MAOs in the body have been associated with depression, schizophrenia, substance abuse, attention deficit disorder, migraines, and irregular sexual maturation. MAO inhibitors are one of the major classes of drug prescribed for the treatment of depression.

Applications

MAO-A/B activity determination in biological samples.Evaluation and screening for MAO inhibitors.

Usage

For research use only (RUO)

Storage

Store Assay Buffer and Hydrogen Peroxide at 4°C and other reagents at -20°C. Shelf life: 6 months after receipt.

Kit Components

Assay Buffer (pH 7.4) 12 mLp-Tyramine 120 uLPargyline (20 mM) 50 µLHRP Enzyme 120 uLClorgyline (20 mM) 50 µLDye Reagent 120 uLHydrogen Peroxide (3% H2O2) 100 µL

Detection method Fluorometric

Compatible Sample Types

Biological Sample

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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Monoamine Oxidase Assay Kit

Safe: Non-radioactive assay.Sensitive and accurate: As low as 0.01 U/L MAO activity can be quantified.Homogeneous and convenient: "Mix-incubate-measure" type assay. No wash and reagent transfer steps are involved.Robust and amenable to HTS: can be readily automated on HTS liquid handling systems for processing thousands of samples per day.

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