Creative Enzymes®

Monoamine Oxidase B from Human, Recombinant

Cat. No. NATE-0441

Lot. No. (See product label)

Introduction

Description MAO's are proteins of the mitochondrial membrane. These enzymes are responsible for catalyzing oxidative deamination of endo-and xenobiotic amines. Substrate specificity differs for each isozyme.

Applications Drugs that inhibit monoamine oxidase B activity are used for the treatment of various neurological disorders including depression. Monoamine Oxidase B has been used in a study to assess the effect of age in 23 different regions of the human brain. It has also been used in a study to determine the specific l ocations of monoamine oxidase in the human brain.

Synonyms MAO-B; MAOB; EC 1.4.3.4; Monoamine Oxidase B; adrenalin oxidase; adrenaline oxidase; amine oxidase (ambiguous); amine oxidase (flavin-containing); amine:oxygen oxidoreductase (deaminating) (flavin-containing); epinephrine oxidase; monoamine:O2 oxidoreductase (deaminating); polyamine oxidase (ambiguous); serotonin deaminase; spermidine oxidase (ambiguous); spermine oxidase (ambiguous); tyraminase; tyramine oxidase

Product Information

Species Human

Source Baculovirus infected BTI insect cells

EC Number EC 1.4.3.4

CAS No. 231-791-2

Concentration ~2.5 mg per vial

Pathway Alpha-synuclein signaling, organism-specific biosystem; Amine Oxidase reactions, organism-specific biosystem; Amphetamine addiction, organism-specific biosystem; Amphetamine addiction, conserved biosystem; Arginine and proline metabolism, organism-specific biosystem; Arginine and proline metabolism, conserved biosystem; Biological oxidations, organism-specific biosystem

Function electron carrier activity; flavin adenine dinucleotide binding; oxidoreductase activity; primary amine oxidase activity; protein homodimerization activity

Storage and Shipping Information

Storage −70°C