

Monoamine Oxidase A from Human, Recombinant

Cat. No. NATE-0440

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

Monoamine Oxidase A has been used in a study to assess abnormal behavior in a large kindred of males where a deficiency of enzymatic activity of monoamine oxidase A was found. It has also been used in a study to investigate an association between smoking and the inhibition of MAOA.

Synonyms

MAO-A; MAOA; EC 1.4.3.4; Monoamine Oxidase A; 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

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; Biogenic Amine Synthesis, organism-specific biosystem; Biological oxidations, organism-specific biosystem

Function

flavin adenine dinucleotide binding; oxidoreductase activity; primary amine oxidase activity; serotonin binding

Storage and Shipping Information

Storage

-70°C