Creative Enzymes®

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 monamine oxidase A was found. It has also been used in a study to investigate an ass ociation 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