Recombinant Human Monoamine Oxidase A

Cat. No. MAOA-708H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human monoamine oxidase A was expressed in Baculovirus infected BTI insect cells.
Species	Human
Source	Insect Cells
Description	Monoamine oxidase A, also known as MAOA, is an enzyme which in humans is encoded by the MAOA gene. Monoamine oxidase A is an isozyme of monoamine oxidase. It preferentially deaminates norepinephrine (noradrenaline), epinephrine (adrenaline), serotonin, and dopamine (dopamine is equally deaminated by MAO-A and MAO-B). It is inhibited by clorgiline and befloxatone.
Assay	~2.5 mg per vial.
Biochem/physiol Actions	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.
Shipped In	Dry ice.
Storage Temp	−70°C.
Personal Protective Equipment	Eyeshields, Gloves, half-mask respirator (EU), half-mask respirator (US), multi-purpose combination respirator cartridge (US).

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GENE INFORMATION

Gene Name	MAOA monoamine oxidase A [Homo sapiens]
Official Symbol	MAOA
Synonyms	MAOA; monoamine oxidase A; amine oxidase [flavin-containing] A; MAO-A; monoamine oxidase type A; EC 1.4.3.4; Monoamine oxidase type A
Gene ID	4128
mRNA Refseq	NM_000240
Protein Refseq	NP_000231
MIM	309850
UniProt ID	P21397
Chromosome Location	Xp11.4-p11.3
Pathway	Arginine and proline metabolism; Drug metabolism - cytochrome P450; Glycine, serine and threonine metabolism; Histidine metabolism; Metabolic pathways; Phenylalanine metabolism; Tryptophan metabolism; Tyrosine metabolism; Biological oxidations; Synaptic Transmission
Function	amine oxidase activity; oxidoreductase activity; protein binding

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