

Recombinant Human MAOB, His tagged

Cat. No. MAOB-8316H Lot. No. (See product label)

SPECIFICATION

Product Overview MAO-B Human Recombinant produced in E.coli is a single, non-glycosylated, Polypeptide chain containing 488 amino acids fragment (2-489) corresponding to the cytoplasmic domain fragment of the mature protein, having total molecular mass of 62kDa and fused with 4.5kDa amino-terminal hexahistidine tag. The MAO-B is purified by chromatographic techniques.

Species Human

Source E.coli

ProteinLength 2-489 a.a.

Description The protein encoded by this gene belongs to the flavin monoamine oxidase family. It is a enzyme located in the mitochondrial outer membrane. It catalyzes the oxidative deamination of biogenic and xenobiotic amines and plays an important role in the metabolism of neuroactive and vasoactive amines in the central nervous system and peripheral tissues. This protein preferentially degrades benzylamine and phenylethylamine.

Form MAO-B protein is supplied in 1x PBS and 50% glycerol.

Purity Greater than 95.0% as determined by SDS-PAGE.

Notes For research use only.

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Storage Store at 4 °C if entire vial will be used within 2-4 weeks. Store frozen at -20 °C for longer periods of time. Please avoid freeze/thaw cycles.

GENE INFORMATION

Gene Name MAOB monoamine oxidase B [Homo sapiens]

Official Symbol MAOB

Synonyms MAOB; monoamine oxidase B; amine oxidase [flavin-containing] B; MAO-B; MAO, brain; MAO, platelet; tyramine oxidase; adrenalin oxidase; monoamine oxidase type B; MGC26382;

Gene ID 4129

mRNA Refseq NM_000898

Protein Refseq NP_000889

MIM 309860

UniProt ID P27338

Chromosome Location Xp11.4-p11.3

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;

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Function

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

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