

Active Recombinant Human MAOB Protein

Cat. No. MAOB-109H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant human MAOB protein without tag was expressed in insect cells.

Species Human

Source Insect cells

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.

Bio-activity Activity Data(Unless otherwise stated, all assays are carried out at 37 centigrade in 90 mM potassium phosphate (pH 7.4))
Substrate: Kynuramine (4-hydroxyquinoline formation)
Linear with time up to: 30 min(Determined at 20 μ M substrate, using a protein concentration of 5 μ g/ml)
Linear with protein up to: 15 μ g/ml (see note 3)(Determined at 20 μ M substrate, using an incubation time of 10 min. Under these incubation conditions, the reaction is not strictly linear across the protein concentration range from 2 – 20 μ g/ml: measured enzyme activity increases as the protein concentration increases)
Vmax: 104 nmol/min/mg protein
Km: 53 μ M

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Usage	For laboratory (research) purposes only
Storage	Store at -80 centigrade. Avoid frequent temperature changes. Thaw on ice.
Concentration	Protein Concentration: 5 mg/ml
Storage Buffer	10 mM sodium phosphate (pH 7.4), 140 mM sodium chloride, 20% (v/v) glycerol

GENE INFORMATION

Gene Name	MAOB monoamine oxidase B [Homo sapiens (human)]
Official Symbol	MAOB
Synonyms	MAOB; monoamine oxidase B; amine oxidase [flavin-containing] B; MAO, brain; MAO, platelet; MAO-B; adrenalin oxidase; monoamine oxidase type B; tyramine oxidase
Gene ID	4129
mRNA Refseq	NM_000898
Protein Refseq	NP_000889
MIM	309860
UniProt ID	P27338

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