

Active Recombinant Human MAOA Protein

Cat. No. MAOA-108H Lot. No. (See product label)

SPECIFICATION

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

Species Human

Source Insect cells

Description This gene is one of two neighboring gene family members that encode mitochondrial enzymes which catalyze the oxidative deamination of amines, such as dopamine, norepinephrine, and serotonin. Mutation of this gene results in Brunner syndrome. This gene has also been associated with a variety of other psychiatric disorders, including antisocial behavior. Alternatively spliced transcript variants encoding multiple isoforms have been observed.

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: 20 μ g/ml(Determined at 20 μ M substrate, using an incubation time of 10 min)
Vmax: 121 nmol/min/mg protein
Km: 41 μ M

Usage For laboratory (research) purposes only

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

Gene Name	MAOA monoamine oxidase A [Homo sapiens (human)]
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Official Symbol	MAOA
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Synonyms	MAOA; monoamine oxidase A; BRNRS; MAO-A; amine oxidase [flavin-containing] A; monoamine oxidase type A
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Gene ID	4128
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mRNA Refseq	NM_000240
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Protein Refseq	NP_000231
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MIM	309850
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UniProt ID	P21397
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