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MAOA Blocking Peptide (C-term)

Synthetic peptide
Catalog # BP21078a

Specification

MAOA Blocking Peptide (C-term) - Product Information

Primary Accession P21397

MAOA Blocking Peptide (C-term) - Additional Information

Gene ID 4128

Other Names
Amine oxidase [flavin-containing] A, Monoamine oxidase type A, MAO-A, MAOA

Target/Specificity
The synthetic peptide sequence is selected from aa 465-479 of HUMAN MAOA

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

MAOA Blocking Peptide (C-term) - Protein Information

Name MAOA (HGNC:6833)

Function
Catalyzes the oxidative deamination of primary and some secondary amine such as neurotransmitters, with concomitant reduction of oxygen to hydrogen peroxide and has important functions in the metabolism of neuroactive and vasoactive amines in the central nervous system and peripheral tissues (PubMed:20493079, PubMed:8316221, PubMed:18391214, PubMed:24169519). Preferentially oxidizes serotonin (PubMed:20493079, PubMed:24169519). Also catalyzes the oxidative deamination of kynuramine to 3-(2-aminophenyl)-3-oxopropanal that can spontaneously condense to 4-hydroxyquinoline (By similarity).

Cellular Location
Mitochondrion outer membrane {ECO:0000250|UniProtKB:P21396}; Single-pass type IV

membrane protein {ECO:0000250|UniProtKB:P21396}; Cytoplasmic side {ECO:0000250|UniProtKB:P21396}

Tissue Location
Heart, liver, duodenum, blood vessels and kidney.

MAOA Blocking Peptide (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

MAOA Blocking Peptide (C-term) - Images

MAOA Blocking Peptide (C-term) - Background

Catalyzes the oxidative deamination of biogenic and xenobiotic amines and has important functions in the metabolism of neuroactive and vasoactive amines in the central nervous system and peripheral tissues. MAOA preferentially oxidizes biogenic amines such as 5-hydroxytryptamine (5-HT), norepinephrine and epinephrine.

MAOA Blocking Peptide (C-term) - References

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Ota T.,et al.Nat. Genet. 36:40-45(2004).