

Datasheet for ABIN7552191

**Monoamine Oxidase A Protein (MAOA) (AA 1-527) (His tag)**[Go to Product page](#)

## Overview

Quantity:	1 mg
Target:	Monoamine Oxidase A (MAOA)
Protein Characteristics:	AA 1-527
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Monoamine Oxidase A protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant MAOA Protein expressed in mammalian cells.
Sequence:	<p>MENQEKASIA GHMFDVVVIG GGISGLSAAK LLTEYGVSVL VLEARDRVGG RITYTIRNEHV DYVDVGGAYV GPTQNRILRL SKELGIETYK VNVSERLVQY VKGKTYPRG AFPPVWNPIA YLDYNNLWRT IDNMGKEIPT DAPWEAQHAD KWDMKMTMKEL IDKICWTKTA RRFAYLFVNI NVTSEPHEVS ALWFLWYVKQ CGGTTRIFSV TNGGQERKFV GSGQVSERI MDLLGDQVKL NHPVTHVDQS SDNIIITLN HEHYECKYVI NAIPPTLTAK IHFRPELPAE RNQLIQLRPM GAVIKCMMYY KEAFWKKKDY CGCMIIEDED APISITLDDT KPDGSLPAIM GFILARKADR LAKLHKEIRK KKICELYAKV LGSQEALHPV HYEKNWCEE QYSGGCYTAY FPPGIMTQYG RVIRQPVGRI FFAGTETATK WSGYMEGAVE AGERAAREVL NGLGKVTEKD IWWQEPESKD VPAVEITHTF WERNLPSVSG LLKIIGFSTS VTALGFVLYK YKLLPRS <b>Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.</b></p>

## Product Details

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**Specificity:** If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

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**Characteristics:** **Key Benefits:**

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

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**Purity:** > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

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**Grade:** custom-made

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## Target Details

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**Target:** Monoamine Oxidase A (MAOA)

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**Alternative Name:** MAOA ([MAOA Products](#))

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**Background:** Amine oxidase [flavin-containing] A (EC 1.4.3.21) (EC 1.4.3.4) (Monoamine oxidase type A) (MAO-A),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). {ECO:0000250|UniProtKB:P21396, ECO:0000269|PubMed:18391214, ECO:0000269|PubMed:20493079, ECO:0000269|PubMed:24169519, ECO:0000269|PubMed:8316221}.

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## Target Details

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Molecular Weight: 59.7 kDa

UniProt: [P21397](#)

## Application Details

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Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

## Handling

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Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months