

## Monoamine Oxidase A Recombinant Protein | MAOA recombinant protein

Recombinant Human Monoamine Oxidase A

CATALOG #  
AAA38032HOST  
E Coli

### PRODUCT SYNONYMS

Monoamine Oxidase A; Recombinant Human Monoamine Oxidase A; Monoamine Oxidase Type A; EC 1.4.3.4; MAO-A; Amine Oxidase [Flavin-Containing] A; EC 1.4.3; Amine oxidase [flavin-containing] A; Monoamine oxidase type A.; MAOA recombinant protein

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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| Host                    | E Coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Purity/Purification     | Greater than 80% as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Form/Format             | MAOA protein solution (0.5mg/ml) containing 20mM Tris-HCl (pH8.0) and 10% glycerol.<br>Sterile Filtered colorless solution.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Sequence                | MGSSHHH HHHSSGLVPR GSHMGS MENQEKASIA GHMFDVVVIG GGISGLSAK LLTEYGVSVL<br>VLEARDRVGG RTYTIRNEHV DYVDVGGAYV GPTQNRILRL SKELGIETYK VNVSERLVQY VKGKTYPFGRG<br>AFPPVWNPIA YLDYNNLWRT IDNMGKEIPT DAPWEAQHAD KWDKMTMKEL IDKICWTKTA RRFAYLFDNI<br>NVTSEPHEVS ALWFLWYVKQ CGGTTRIFSV TNGGQERKFV GGSGQVSERI MDLLGDQVKL NHPVTHVDQS<br>SDNIIETLN HEHYECKYVI NAIPPTLTAK IHFRPELPAE RNQLIQLPM GAVIKCMMYY KEAFWKKKDY<br>CGCMIEDED APISITLDDT KPDGSLPAIM GFILARKADR LAKLHKEIRK KKICELYAKV LGSQEALHPV<br>HYEKNWCEE QYSGGCTAY FPPGIMTQYG RVIRQPVGRI FFAGTETATK WSGYMEGAVE AGERAAREVL<br>NGLGKVTEKD IWWQEPESKD VPAVEITHTF WERNLPS |
| Sequence Length         | 527                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Preparation and 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.<br>For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).<br>Avoid multiple freeze-thaw cycles.                                                                                                                                                                                                                                                                                                                                                                   |

### ADDITIONAL INFORMATION

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| Related Product Information for MAOA recombinant protein | <p>Introduction: Monoamine Oxidase A, also known as MAOA catalyzes the oxidative deamination of biogenic as well as xenobiotic amines and has significant functions in the metabolism of neuroactive and vasoactive amines in the central nervous system as well as peripheral tissues. Mutation in MAOA results in Brunner syndrome; in addition MAOA has also been linked with a diversity of other psychiatric disorders, which includes antisocial behavior. MAOA preferentially oxidizes biogenic amines such as 5-hydroxytryptamine (5-HT), norepinephrine and also epinephrine.</p> <p>Description: MAOA Human Recombinant produced in E Coli is a single, non-glycosylated polypeptide chain containing 520 amino acids (1-497 a.a) and having a molecular mass of 58.8kDa. MAOA is fused to a 23 amino acid His-tag at N-terminus &amp; purified by proprietary chromatographic techniques.</p> |
| Product Categories/Family for MAOA recombinant protein   | Enzymes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

### NCBI AND UNIPROT INFORMATION

|                  |             |
|------------------|-------------|
| NCBI GI #        | 4557735     |
| NCBI GeneID      | 4128        |
| NCBI Accession # | NP_000231.1 |

|                                  |                                                                          |
|----------------------------------|--------------------------------------------------------------------------|
| NCBI GenBank Nucleotide #        | <a href="#">NM_000240.3</a>                                              |
| UniProt Accession #              | <a href="#">P21397</a> ; <a href="#">Q16426</a> ; <a href="#">B4DF46</a> |
| Molecular Weight                 | 44,848 Da                                                                |
| NCBI Official Full Name          | amine oxidase                                                            |
| NCBI Official Synonym Full Names | monoamine oxidase A                                                      |
| NCBI Official Symbol             | MAOA                                                                     |
| NCBI Official Synonym Symbols    | MAO-A                                                                    |
| NCBI Protein Information         | amine oxidase [flavin-containing] A                                      |
| UniProt Protein Name             | Amine oxidase [flavin-containing] A                                      |
| UniProt Gene Name                | <b>MAOA</b>                                                              |
| UniProt Synonym Gene Names       | MAO-A                                                                    |
| UniProt Entry Name               | AOFA_HUMAN                                                               |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/maoa-recombinant-protein-e-coli/38032>