

MAOA recombinant protein

Recombinant MAOA protein

CATALOG #
AAA59723

HOST
Baculovirus

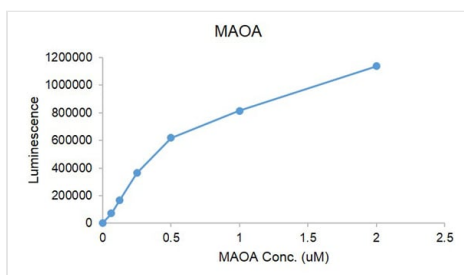
PRODUCT SYNONYMS

MAOA; Recombinant MAOA protein; Monoamine Oxidase A; MAO-A; MAOA recombinant protein

PRODUCT SPECIFICATIONS

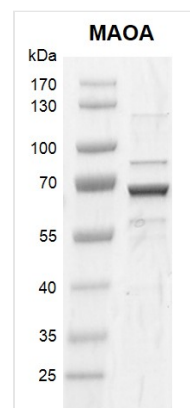
Host	Baculovirus
Purity/Purification	The recombinant protein is >80% pure by SDS-PAGE.
Form/Format	Full length recombinant MAOA protein was expressed in Sf9 cells and is supplied in 25mM Hepes pH7.5, 300mM NaCl, 5% Glycerol, 0.04% Triton X-100, 0.2mM TCEP, 0.2mg/ml 3× DYKDDDDK peptide.
Protein Species	Human
Tag	DYKDDDDK-Tag
Notes	Recombinant MAOA is suitable for use in the study of enzyme kinetics, inhibitor screening, and selectivity profiling. Monoamine Oxidase Assay: 40uM substrate was incubated with MAOA protein in reaction buffer for 1 hour at room temperature, then the product was incubated with Detection Reagent for 0.5 hour at temperature. The activity of MAOA was detected by Promega MAO-Glo Assay.
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Recombinant proteins in solution are temperature sensitive and must be stored at -80 degree C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage. Shipping Temp: Dry Ice

IMAGES



Application Data

MAO-Glo™ Assay for MAOA activity 40 uM substrate was incubated with MAOA protein in reaction buffer for 1 hour at room temperature, then the product was incubated with Detection Reagent for 0.5 hour at temperature. The activity of MAOA was detected by Promega MAO-Glo Assay.



SDS-PAGE

Recombinant MAOA protein gel. MAOA protein was run on an 8% SDS-PAGE gel and stained with Coomassie blue.

ADDITIONAL INFORMATION

Related Product Information for MAOA recombinant protein	Short Description: Recombinant MAOA (accession number NP_000231.1) was expressed in Sf9 cells and contains an N-terminal DYKDDDDK-Tag with an observed molecular weight of 60.7 kDa. The recombinant protein is >80% pure by SDS-PAGE. It is suitable for use in the study of enzyme kinetics, inhibitor screening, and selectivity profiling. Background: MAOA (Monoamine Oxidase A) is one of two neighboring mitochondrial enzyme family members which catalyze the oxidative deamination of amines, such as dopamine, norepinephrine, and serotonin. The other member is MAOB. Mutation of MAOA results in Brunner syndrome and maoa-related behavior disorders. MAOA 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.
Product Categories/Family for MAOA recombinant protein	Recombinant Proteins

NCBI AND UNIPROT INFORMATION

NCBI GI #	4557735
NCBI GeneID	4128
NCBI Accession #	NP_000231.1
NCBI GenBank Nucleotide #	NM_000240.3
UniProt Accession #	P21397; Q16426; B4DF46
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	MAOA
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.