

# Recombinant human MAO-A protein

Catalog Number: ATGP3021

## PRODUCT INFORMATION

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**Expression system**

E.coli

**Domain**

1-497aa

**UniProt No.**

P21397

**NCBI Accession No.**

NP\_000231

**Alternative Names**

Amine oxidase [flavin-containing] A isoform 1, Amine oxidase [flavin-containing] A isoform 1, MAO-A

## PRODUCT SPECIFICATION

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**Molecular Weight**

58.8 kDa (520aa)

**Concentration**

0.5mg/ml (determined by Bradford assay)

**Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol

**Purity**

> 80% by SDS-PAGE

**Tag**

His-Tag

**Application**

SDS-PAGE, Denatured

**Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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**Description**

MAOA, also known as Amine oxidase [flavin-containing] A. This protein 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. Recombinant human MAOA, fused to His-tag at N-terminus, was expressed in E. coli.

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## Amino acid Sequence

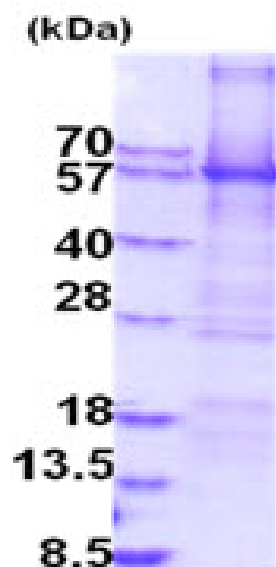
MGSSHHHHHH SSSLVPRGSH MGSMENQEKA SIAGHMFVSV VIGGGISGLS AAKLLTEYGV SVLVLEARDR VGGRTYTIRN  
EHVDYVDVGG AYVGPTQNR LRLSKELGIE TYKVNVSERL VQYVKGKTYP FRGAFPPVWN PIAYLDYNNL WRTIDNMGKE  
IPTDAPWEAQ HADKWDKMTM KELIDKICWT KTARRFAYLF VNINVTSEPH EVSALWFLWY VKQCGGTTRI FSVTNGGQER  
KFVGGSGQVS ERIMDLLGDQ VKLNHPVTHV DQSSDNIIE TLNHEHYECK YVINAIPPTL TAKIHFPEL PAERNQLIQR  
LPMGAVIKCM MYYKEAFWKK KDYCGCMIE DEDAPISITL DDTKPDGSLP AIMGFILARK ADRLAKLHKE IRKKKICELY  
AKVLGSQEAL HPVHYEENW CEEQYSGGCY TAYFPPGIMT QYGRVIRQPV GRIFFAGTET ATKWSGYMEG AVEAGERAAR  
EVLNGLGKVT EKDIWVQEPE SKDVPVEIT HTFWERNLPS

## General References

Hsu Y.-P.P.,et al. (1988) J. Neurochem. 51:1321-1324

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)