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Recombinant human MAO-A protein

Catalog Number: ATGP3021

PRODUCT INFORMATION

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

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

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

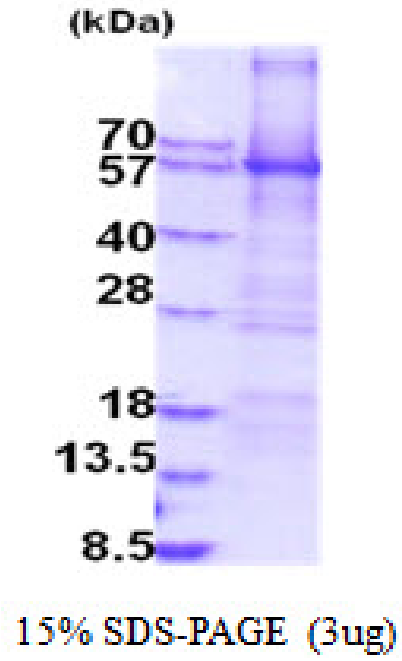
MGSSHHHHHH SSGLVPRGSH MGSMENQEKA SIAGHMFDVV VIGGGISGLS AAKLLTEYGV SVLVLEARDR VGGRTYTIRN EHVDYVDVGG AYVGPTQNRI LRLSKELGIE TYKVNVSERL VQYVKGKTYP FRGAFPPVWN PIAYLDYNNL WRTIDNMGKE IPTDAPWEAQ HADKWDKMTM KELIDKICWT KTARRFAYLF VNINVTSEPH EVSALWFLWY VKQCGGTTRI FSVTNGGQER KFVGGSGQVS ERIMDLLGDQ VKLNHPVTHV DQSSDNIIIE TLNHEHYECK YVINAIPPTL TAKIHFRPEL PAERNQLIQR LPMGAVIKCM MYYKEAFWKK KDYCGCMIIE DEDAPISITL DDTKPDGSLP AIMGFILARK ADRLAKLHKE IRKKKICELY AKVLGSQEAL HPVHYEEKNW CEEQYSGGCY TAYFPPGIMT QYGRVIRQPV GRIFFAGTET ATKWSGYMEG AVEAGERAAR EVLNGLGKVT EKDIWVQEPE SKDVPAVEIT HTFWERNLPS

General References

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

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

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