Recombinant human ABP1/AOC1 protein

Catalog Number: ATGP3938

PRODUCT INFORMATION

Expression system
HEK293

Domain
20-751aa

UniProt No.
P19801

NCBI Accession No.
NP_001082

Alternative Names
Amiloride-sensitive amine oxidase, DAO, Diamine oxidase, Amiloride-binding protein 1, Amine oxidase copper domain-containing protein 1, Histaminase, Kidney amine oxidase, KAO, ABP, ABP1, DAO1

PRODUCT SPECIFICATION

Molecular Weight
84.2kDa (738aa)

Concentration
0.25mg/ml (determined by absorbance at 280nm)

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity
> 90% by SDS-PAGE

Endotoxin level
< 1 EU per 1ug of protein (determined by LAL method)

Tag
His-Tag

Application
SDS-PAGE

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
ABP1, also known as diamine oxidase (DAO) and amine oxidase copper domain-containing protein 1 (AOC1), is a member of the copper-containing amine oxidase family. This enzyme catalyzes the oxidation of a wide range of biogenic amines including many neurotransmitters, histamine and xenobiotic amines. It has an important role in

the catabolism of histamine and other bioactive polyamines. Deficiencies in ABP1 can result in histaminosis or dietary histamine intolerance. This protein is also contributed to Tumor Progression by Promoting the AKT and EMT Pathways in Gastric Cancer. Recombinant human AOC1, fused to His-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.

Amino acid Sequence

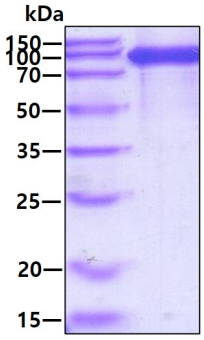
EPSPGTLPRK AGVFSDLSNQ ELKAVHSFLW SKKELRLQPS STTTMAKNTV FLIEMLLPKK YHVLRFLDKG ERHPVREARA VIFFGDQEHP NVTEFAVGPL PGPCYMRALS PRPGYQSSWA SRPISTAEYA LLYHTLQEAT KPLHQFFLNT TGFSFQDCHD RCLAFTDVAP RGVASGQRRS WLIIQRYVEG YFLHPTGLEL LVDHGSTDAG HWAVEQVWYN GKFYGSPEEL ARKYADGEVD VVVLEDPLPG GKGHDSTEEP PLFSSHKPRG DFPSPIHVSG PRLVQPHGPR FRLEGNAVLY GGWSFAFRLR SSSGLQVLNV HFGGERIAYE VSVQEAVALY GGHTPAGMQT KYLDVGWGLG SVTHELAPGI DCPETATFLD TFHYYDADDP VHYPRALCLF EMPTGVPLRR HFNSNFKGGF NFYAGLKGQV LVLRTTSTVY NYDYIWDFIF YPNGVMEAKM HATGYVHATF YTPEGLRHGT RLHTHLIGNI HTHLVHYRVD LDVAGTKNSF QTLQMKLENI TNPWSPRHRV VQPTLEQTQY SWERQAAFRF KRKLPKYLLF TSPQENPWGH KRTYRLQIHS MADQVLPPGW QEEQAITWAR YPLAVTKYRE SELCSSSIYH QNDPWHPPVV FEQFLHNNEN IENEDLVAWV TVGFLHIPHS EDIPNTATPG NSVGFLLRPF NFFPEDPSLA SRDTVIVWPR DNGPNYVQRW IPEDRDCSMP PPFSYNGTYR PV<HHHHHH>

General References

Novotny, W.F. et al. (1994) J. Biol. Chem. 269:9921-9925.
Jones, B.L. and G.L. Kearns (2011) Clin. Pharmacol. Ther. 89:189-197.
Bieganski, T. et al. (1983) Biochim. Biophys. Acta 756:196-203.

DATA

SDS-PAGE



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