

# Recombinant mouse Aldehyde dehydrogenase 2/ALDH2 protein

Catalog Number: ATGP3103

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

20-519aa

### UniProt No.

P47738

### NCBI Accession No.

NP\_033786

### Alternative Names

Aldehyde dehydrogenase mitochondrial, Aldehyde dehydrogenase 2 family member, AHD-M1, ALDH class 2, ALDH-E2, ALDHI, Ahd-1, ALDM

## PRODUCT SPECIFICATION

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### Molecular Weight

56.8 kDa (523aa)

### Concentration

0.5mg/ml (determined by Bradford assay)

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 20% glycerol, 1mM DTT

### Purity

> 85% by SDS-PAGE

### 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

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### Description

Aldh2 also known as Aldehyde dehydrogenase, mitochondrial. Aldh2 belongs to the aldehyde dehydrogenase family which catalyzes the chemical transformation from acetaldehyde to acetic acid and is the second enzyme of the major oxidative pathway of alcohol metabolism. There are two major liver isoforms of this enzyme, cytosolic and mitochondrial, and they can be also distinguished by their electrophoretic mobilities, kinetic properties, and subcellular localizations. Recombinant mouse ALDH2 was expressed in E. coli and purified by

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using conventional chromatography techniques

## Amino acid Sequence

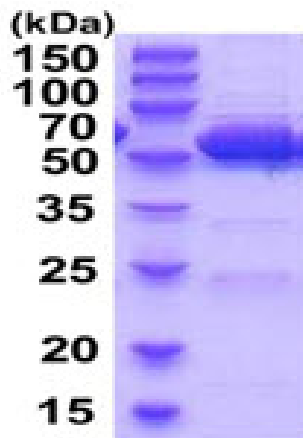
MGSSHHHHHHH SSSLVPRGSH MGSSAAATSA VPAPNHQPEV FCNQIFINNE WHDAVSRKTF PTVNPSTGEV ICQVAEGNKE  
DVKAVKAAR AAFQLGSPWR RMDASDRGRL LYRLADLIER DRTYLALET LDNGKPYVIS YLVDLDMVLK CLRYAGWAD  
KYHGKTIPIID GDFFSYTRHE PVGVCQIIP WNFPLLMQAW KLGALATGN VVVMKVAEQT PLTALYVANL IKEAGFPPGV  
VNIVPGFGPT AGAAIASHEG VDKVAFTGST EVGHLIQVAA GSSNLKRVTL ELGGKSPNII MSDADMDWAV EQAHFALFFN  
QGQCCAGSR TFVQENVYDE FVERSVARAK SRVVGPNPFD S RTEQGPQVDE TQFKKILGYI KSGQQEGAKL LCGGGAAADR  
GYFIQPTVFG DVKDGMTIAK EEIFGPVMI LKFKTIEEV GRANDSKYGL AAAVFTKDL D KANYLSQALQ AGTVWINCYD  
VFGAQSPFGG YKMSGSGREL GEYGLQAYTE VKTIVTKVPQ KNS

## General References

Chang C., et al. (1994) Gene. 148:331-336.  
Chen M., et al. (1994) Mol. Pharmacol. 46:88-96.

## DATA

### SDS-PAGE



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

15% SDS-PAGE (3ug)