

## 32-6658: ALDH2 Mouse

**Alternative Name :** Aldehyde dehydrogenase, mitochondrial, AHD-M1, ALDH class 2, ALDH-E2, ALDHI.

### Description

Source: Escherichia Coli.

Sterile Filtered clear solution.

ALDH2 is part of the aldehyde dehydrogenase family of proteins which catalyze the chemical transformation from acetaldehyde to acetic acid. ALDH2 is the second enzyme of the major oxidative pathway of alcohol metabolism. ALDH2 has 2 major liver isoforms: cytosolic and mitochondrial, which differ by their electrophoretic mobilities, kinetic properties, and subcellular localizations. Nearly all Caucasians have 2 major isozymes, whereas roughly 50% of Orientals have only the cytosolic isozyme, omitting the mitochondrial isozyme. The extremely higher rate of acute alcohol intoxication with Orientals compared to Caucasians is due to the fact of the absence of mitochondrial isozyme. ALDH2 has a low Km for acetaldehydes, and is localized in mitochondrial matrix.

ALDH2 Mouse Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 523 amino acids (20-519 a.a) and having a molecular mass of 56.8kDa. ALDH2 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

### Product Info

**Amount :** 5 µg / 20 µg

**Purification :** Greater than 85% as determined by SDS-PAGE.

**Content :** ALDH2 protein e solution (0.5mg/ml) containing Phosphate buffered saline(pH7.4), 20% glycerol and 1mM DTT.

**Storage condition :** Store at 4°C if entire vial will be used within 2-4 weeks.

**Amino Acid :** MGSSHHHHHH SSGLVPRGSH MGSSAAATSA VPAPNHQPEV FCNQIFINNE WHDAVSRKTF  
PTVNPSTGEV ICQVAEGNKE DVDKAVKAAR AAFQLGSPWR RMDASDRGRL LYRLADLIER DRTYLALET  
LDNGKPYVIS YLVDLDMVLK CLRYAGWAD KYHGKTIPID GDFFSYTRHE PVGVCGQIIP WNFPLLMQAW  
KLGALATGN VVVMKVAEQT PLTALYVANL IKEAGFPPGV VNIVPGFGPT AGAAIASHEG VDKVAFTGST  
EVGHLIQVAA GSSNLKRVTL ELGGKSPNII MSDADMDWAV EQAHFALFFN QGQCCCAGSR  
TFVQENVYDE FVERSVARAK SRVVGPNPFDs RTEQGPQVDE TQFKKILGYI KSGQQEGAKL LCGGGAAADR  
GYFIQPTVFG DVKDGMTIAK EEIFGPVMQI LKFKTIEEVV GRANDSKYGL AAAVFTKDLK KANYLSQALQ  
AGTVWENCYD VFGAQSPFPGG YKMSGSGREL GEYGLQAYTE VKTVTVKVPQ KNS.