

# Product information

## Aldh2, 20-519aa

Mouse, His-tagged, Recombinant, *E.coli*

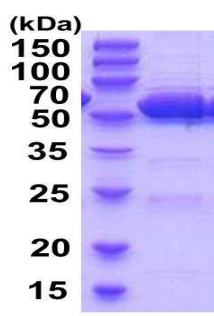
Cat. No. IBATGP3103

**Full name:** Aldehyde dehydrogenase, mitochondrial

**NCBI Accession No.:** NP\_033786

**Synonyms:** Ahd-5, Ahd5

**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 using conventional chromatography techniques

<p><b>Form:</b> Liquid. In Phosphate buffered saline (pH7.4) containing 20% glycerol, 1mM DTT</p> <p><b>Molecular Weight:</b> 56.8kDa (523aa)</p> <p><b>Purity:</b> &gt; 85% by SDS - PAGE</p> <p><b>Concentration:</b> 0.5mg/ml (determined by Bradford assay)</p>	 <p>15% SDS-PAGE (3ug)</p>
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**Sequences of amino acids:**

MGSSHHHHH SSGLVPRGSH MGSSAAATSA VPAPNHQPEV FCNQIFINNE WHDAVSRKTF PTVNPSTGEV ICQVAEGNKE DVDKAVKAAR  
 AAFQLGSPWR RMDASDRGRL LYRLADLIER DRTYLALET LDNGKPYVIS YLVDLDMVLK CLRYAGWAD KYHGKTIPIID GFFSYTRHE  
 PVGCGQIIP WNFPLLMQAW KLGALATGN VVMKVAEQT PLTALYVANL IKEAGFPPGV VNI VPGFGPT AGAAIASHEG VDKVAFTGST  
 EVGHLIQVAA GSSNLKRVTL ELGGKSPNII MSDADMWAV EQAHFALFFN QGCCAGSR TFVQENVYDE FVERSVARAK SRVGNPFDS  
 RTEQGPQVDE TQFKKILGYI KSGQQEGAKL LCGGAAADR GYFIQPTVFG DVKDGMTIAK EEIFGPVMQI LKFKEIEEV GRANDSKYGL  
 AAVFTKDL D KANYLSQALQ AGTVWVWICYD VFGAQSPFGG YKMSGSGREL GEYGLQAYTE VKTVTVKVPQ KNS

**General references:**

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

**Storage:** Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C.  
 Avoid repeated freezing and thawing cycles.

**For research use only. This product is not intended or approved for human, diagnostics or veterinary use.**



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