Recombinant Mouse Aldh2, His-tagged

Cat. No. Aldh2-83M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse ALDH2 was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Mouse
Source	E.coli
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.
Form	Liquid. In Phosphate buffered saline (pH7.4) containing 20% glycerol, 1mM DTT
Molecular Mass	56.8kDa (523aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSSAAATSA VPAPNHQPEV FCNQIFINNE WHDAVSRKTF PTVNPSTGEV ICQVAEGNKE DVDKAVKAAR AAFQLGSPWR RMDASDRGRL LYRLADLIER DRTYLAALET LDNGKPYVIS YLVDLDMVLK CLRYYAGWAD KYHGKTIPID GDFFSYTRHE PVGVCGQIIP WNFPLLMQAW KLGPALATGN VVVMKVAEQT PLTALYVANL IKEAGFPPGV VNIVPGFGPT AGAAIASHEG VDKVAFTGST EVGHLIQVAA GSSNLKRVTL ELGGKSPNII MSDADMDWAV EQAHFALFFN QGQCCCAGSR TFVQENVYDE FVERSVARAK

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	SRVVGNPFDS RTEQGPQVDE TQFKKILGYI KSGQQEGAKL LCGGGAAADR GYFIQPTVFG DVKDGMTIAK EEIFGPVMQI LKFKTIEEVV GRANDSKYGL AAAVFTKDLD KANYLSQALQ AGTVWINCYD VFGAQSPFGG YKMSGSGREL GEYGLQAYTE VKTVTVKVPQ KNS
Purity	>85% by SDS - PAGE
Storage	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.
Concentration	0.5mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name	Aldh2 aldehyde dehydrogenase 2, mitochondrial [Mus musculus]
Official Symbol	Aldh2
Synonyms	ALDH2; aldehyde dehydrogenase 2, mitochondrial; aldehyde dehydrogenase, mitochondrial; ALDHI; AHD-M1; ALDH-E2; ALDH class 2; Ahd5; Ahd-5;
Gene ID	11669
mRNA Refseq	NM_009656
Protein Refseq	NP_033786
Pathway	Arginine and proline metabolism, organism-specific biosystem; Arginine and proline metabolism, conserved biosystem; Ascorbate and aldarate metabolism, organism-specific biosystem; Ascorbate and aldarate metabolism, conserved biosystem; Biological oxidations, organism-specific biosystem; Ethanol oxidation, organism-

	specific biosystem; Fatty Acid Omega Oxidation, organism-specific biosystem;
Function	aldehyde dehydrogenase (NAD) activity; identical protein binding; oxidoreductase activity; oxidoreductase activity, acting on the aldehyde or oxo group of donors, NAD or NADP as acceptor;

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