
Product Data Sheet

Product Name: ALDH2 Mouse

Cat. No.: GP21387

Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Aldehyde dehydrogenase; mitochondrial; AHD-M1; ALDH class2; ALDH-E2; ALDHI.		
Amino Acid Sequence	<p>MGSSHHHHHH SSGLVPRGSH MGSSAAATSA VPAPNHQPEV FCNQIFINNE WHDVSRKTF PTVNPSTGEVICQVAEGNKE DVDKAVKAAR AAFQLGSPWR RMDASDRGRL LYRLADLIER DRTYLALET LDNGKPYVISYLVLDLDMVLK CLRYAGWAD KYHGKTIPID GFFSYTRHE PVGVCGQIIP WNFPLLMQAW KLGALATGNVVMKVAEQT PLTALYVANL IKEAGFPPGV VNIVPGFGPT AGAAIASHEG VDKVAFTGST EVGHLIQVAAGSSNLKRVTLELGGKSPNII MSDADMDWAV EQAHFALFFN QGQCCAGSR TFVQENVYDE FVERSVARAKSRVVGPNPFDSTRTEQGPQVDE TQFKKILGYI KSGQQEGAKL LCGGGAAADR GYFIQPTVFG DVKDGMTIAKEEIFGPVMQI LKFKTIEEVV GRANDSKYGL AAVFTKDLK KANYLSQALQ AGTVWINCYD VFGAQSPFGGYKMSGSGREL GEYGLQAYTE VKTVTVKVPQ KNS.</p>		
Formulation	ALDH2 protein solution (0.5mg/ml) containing Phosphate buffered saline (pH7.4), 20% glycerol and 1mM DTT.		

Introduction

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

Caution: Product has not been fully validated for medical applications. For research use only.

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isozyme. ALDH2 has a low K_m for acetaldehydes, and is localized in mitochondrial matrix.

Stability

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

Background

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.

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