

Datasheet for ABIN7596259

ALDH1A1 Protein (AA 20-519) (His tag)[Go to Product page](#)

Overview

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| Quantity: | 50 µg |
| Target: | ALDH1A1 |
| Protein Characteristics: | AA 20-519 |
| Origin: | Mouse |
| Source: | Escherichia coli (E. coli) |
| Protein Type: | Recombinant |
| Biological Activity: | Active |
| Purification tag / Conjugate: | This ALDH1A1 protein is labelled with His tag. |
| Application: | SDS-PAGE (SDS), Enzyme Activity Assay (EAA) |

Product Details

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| Sequence: | MGSSHHHHHH SSGLVPRGSH MGSSAAATSA VPAPNHQPEV FCNQIFINNE WHDAVSRKTF PTVNPSTGEV ICQVAEGNKE DVDKAVKAAR AAFQLGSPWR RMDASDRGRL LYRLADLIER DRTYLAALET LDNGKPYVIS YLVDLDMVLK CLRYYAGWAD KYHGKTIPID GDFSYSYTRHE PVGVCQGIIP WNFPLLMQAW KLGPALATGN VVVMKVAEQT PLTALYVANL IKEAGFPPGV VNIVPGFGPT AGAAIASHEG VDKVAFTGST EVGHLIQVAA GSSNLKRVTL ELGGKSPNII MSDADMDWAV EQAHFALFFN QGQCCAGSR TFVQENVYDE FVERSVARAK SRVVGNPFD RTEQGPQVDE TQFKKILGYI KSGQQEGAKL LCGGGAAADR GYFIQPTVFG DVKDGMTIAK EEIFGPVMQI LKFKTIEEVV GRANDSKYGL AAVFTKDLD KANYLSQALQ AGTVWINCYD VFGAQSPFGG YKMSGSGREL GEYGLQAYTE VKTVTVKVPQ KNS |
| Purity: | > 95% by SDS-PAGE |

Product Details

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| Endotoxin Level: | < 1 EU per 1ug of protein (determined by LAL method) |
| Biological Activity Comment: | Specific activity is > 180pmol/min/ug, and is defined as the amount of enzyme that catalyze the oxidation of 1.0 pmole Acetaldehyde by NAD per minute at pH 8.0 at 25°C. |

Target Details

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| Target: | ALDH1A1 |
| Alternative Name: | Aldehyde dehydrogenase 2/ALDH2 (ALDH1A1 Products) |
| Background: | <p>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.</p> <p>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> |
| Molecular Weight: | 56.8 kDa (523aa) |
| NCBI Accession: | NP_033786 |
| Pathways: | Dopaminergic Neurogenesis |

Application Details

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| Application Notes: | Optimal working dilution should be determined by the investigator. |
| Restrictions: | For Research Use only |

Handling

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| Format: | Liquid |
| Concentration: | 0.5 mg/mL |
| Storage: | 4 °C,-20 °C,-80 °C |
| Storage Comment: | Can be stored at +2°C to +8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles. |