

ALDH2 active protein

ALDH2,18-517aa, Human, E Coli (Bioactivity Validated)

CATALOG # AAA11764	HOST E Coli	REACTIVITY Human	APPLICATIONS SDS-Page
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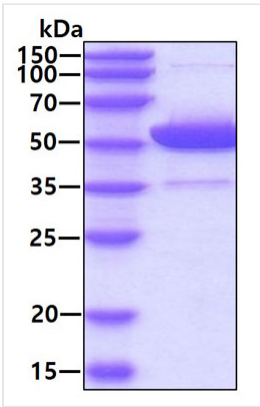
PRODUCT SYNONYMS

ALDH2; 18-517aa; Human; E Coli (Bioactivity Validated); Aldehyde dehydrogenase mitochondrial; ALDH-E2; ALDH1; ALDM; Aldehyde dehydrogenase; mitochondrial Acetaldehyde dehydrogenase 2; Aldehyde dehydrogenase 2 family; Aldehyde dehydrogenase 2 family (mitochondrial); ALDH 2; ALDH class 2; ALDH E2; Liver mitochondrial ALDH; MGC1806; Mitochondrial aldehyde dehydrogenase 2; Nucleus encoded mitochondrial aldehyde dehydrogenase 2.; ALDH2 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Reactivity	Human
Purity/Purification	> 90% by SDS-PAGE
Form/Format	Liquid. In 20 mM Tris-HCl Buffer (pH 7.5) containing 1mM DTT, 1 mM EDTA, 10% glycerol
Concentration	1 mg/ml (determined by Absorbance at 280nm) (varies by lot)
Sequence	MSAAATQAVP APNQQPVEFC NQIFINNEWH DAVSRKTFPT VNPSTGEVIC QVAEGDKEDV DKAVKAARAA FQLGSPWRRM DASHRGRLN RLADLIERDR TYLAALETLD NGKPYVISYL VLDMLVKCL RYYAGWADKY HGKTIPIGDG FFSYTRHEPV GVCQIIPWN FPLLMQAWKL GPALATGNVV VMKVAEQTPL TALYVANLIK EAGFPPGVVN IVPFGFPTAG AAIASHEDVD KVAFTGSTEI GRVIQVAAGS SNLKRVTLEL GGKSPNIIMS DADMDWAVEQ AHFALFFNQG QCCCAGSRTF VQEDIYDEFV ERSVARAKSR VVGPNFDSKT EQGPQVDETQ FKKILGYINT GKQEGAKLLC GGGIAADRGY FIQPTVFGDV QDGMTIAKEE IFGPVMQILK FKTIEEVVGR ANNSTYGLAA AVFTKDLDKA NYLSQALQAG TVWVNCYDVF GAQSPFGGYK MSGSGRELGE YGLQAYTEVK TVTVKVPQKN S
Sequence Length	517
Applicable Applications for ALDH2 active protein	SDS-PAGE, Enzyme Activity
Domain	18-517aa
Endotoxin Level	< 1.0 EU per 1 ug of protein (determined by LAL method)
Biological Activity	Specific activity is > 250pmol/min/ug, and was obtained by measuring the increase of NADH in absorbance at 340 nm resulting from the reduction of NAD at pH 8.0 at 25°C.
Preparation and Storage	Can be stored at +2°C to +8°C for one week. For long term storage, aliquot and store at -20 degree C or -80 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



SDS-PAGE
3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

ADDITIONAL INFORMATION

Related Product Information for ALDH2 active protein	ALDH2 (Aldehyde dehydrogenase 2 family) belongs to the aldehyde dehydrogenase family which catalyze 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 human ALDH2 protein was expressed in E Coli and purified by using conventional chromatography techniques.
Product Categories/Family for ALDH2 active protein	Redox Proteins
References	Crabb DW., et al. (1989). J Clin Invest. 83 (1):314-6; Feng Liu., et al. (2002). Plant Physiol. 130 (4):1657-1674;

NCBI AND UNIPROT INFORMATION

NCBI GI #	25777732
NCBI GeneID	217
NCBI Accession #	NP_000681.2
NCBI GenBank Nucleotide #	NM_000690.3
UniProt Accession #	P05091; Q03639; Q6IB13; Q6IV71; B4DW54; E7EUE5
Molecular Weight	54.5 kDa (501aa), confirmed by MALDI-TOF.
NCBI Official Full Name	aldehyde dehydrogenase, mitochondrial isoform 1
NCBI Official Synonym Full Names	aldehyde dehydrogenase 2 family member
NCBI Official Symbol	ALDH2
NCBI Official Synonym Symbols	ALDM; ALDHI; ALDH-E2
NCBI Protein Information	aldehyde dehydrogenase, mitochondrial
UniProt Protein Name	Aldehyde dehydrogenase, mitochondrial
UniProt Gene Name	ALDH2
UniProt Synonym Gene Names	ALDM

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

